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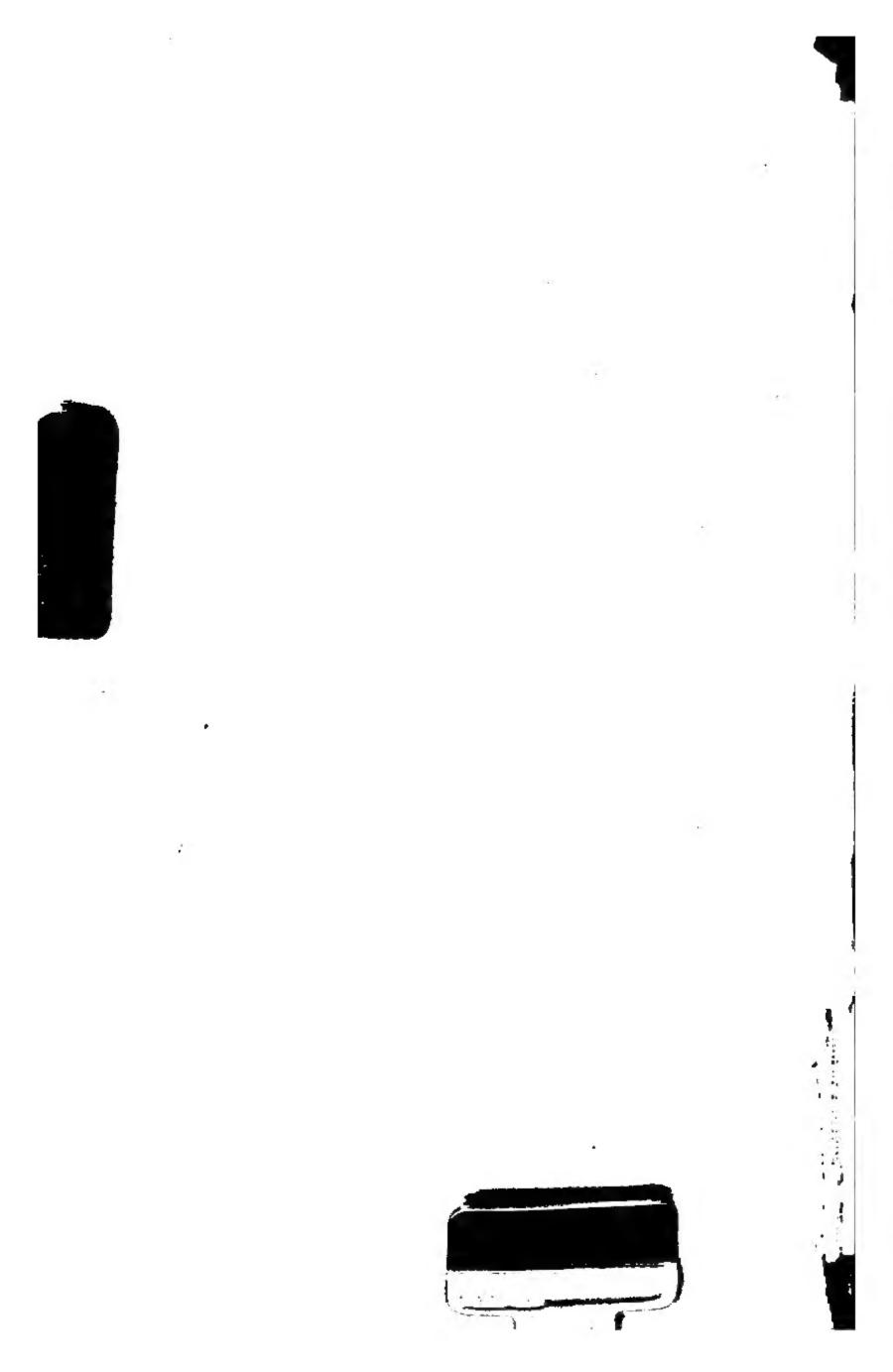
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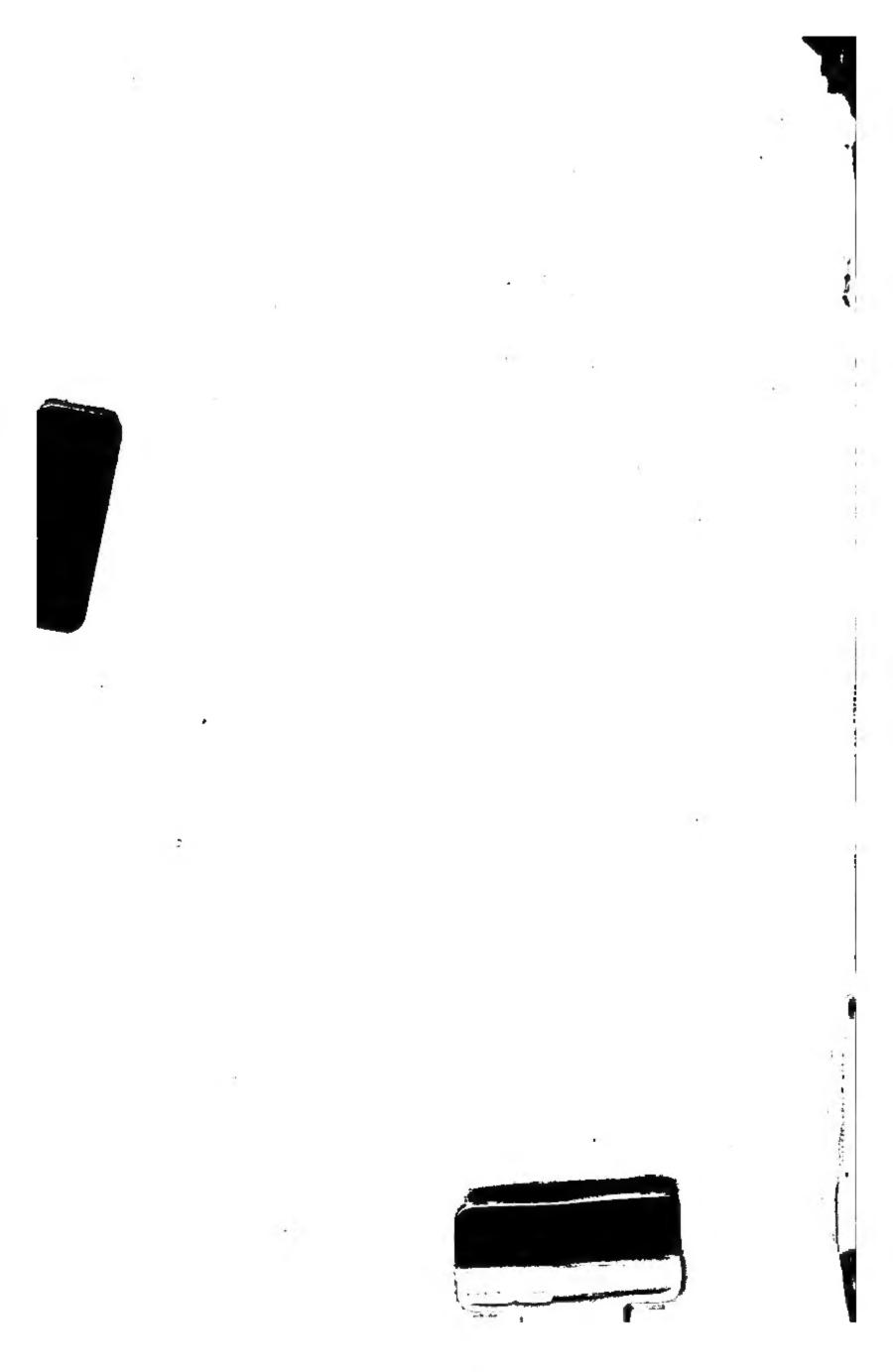


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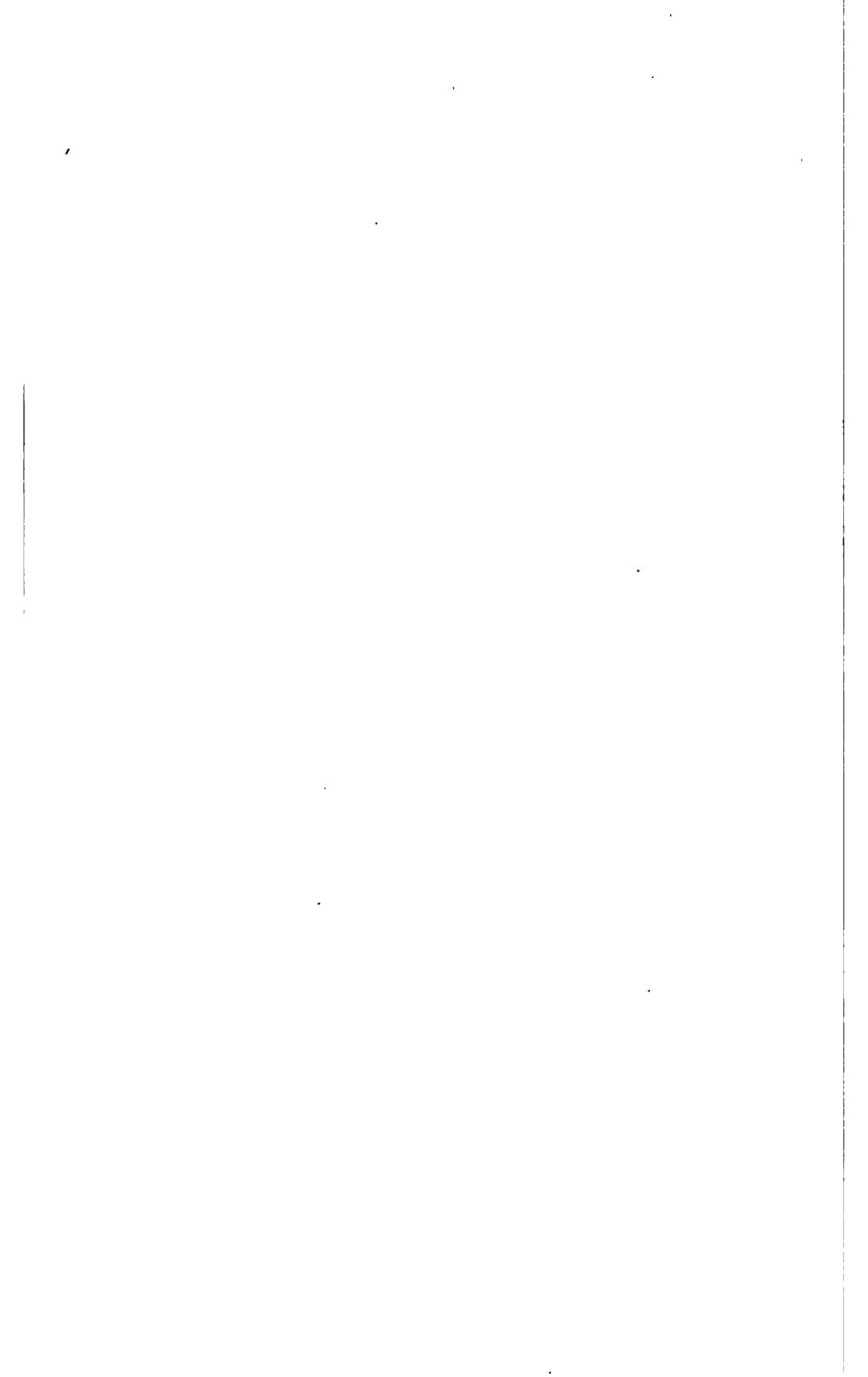
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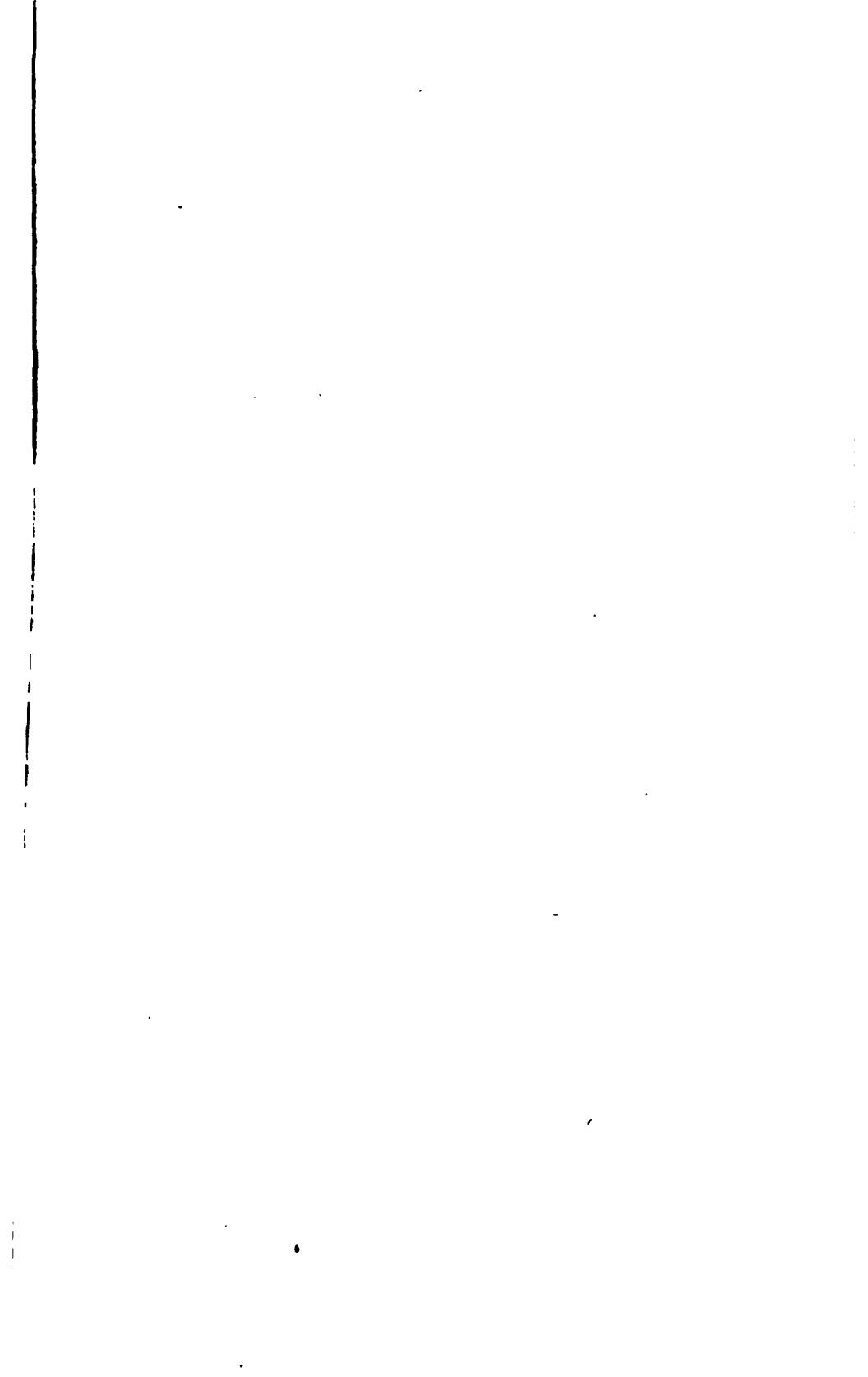
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## REPORTS

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# CONSULS OF THE UNITED STATES.

Vol. XXIV.

OCTOBER-DECEMBER, 1887.

WASHINGTON: GOVERNMENT PRINTING OFFICE. 1887.

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## UNITED STATES CONSULAR REPORTS.

No. 85.—October, 1887.

## ABSTRACT

OF THE

## FOREIGN COMMERCE

OF

# EUROPE, AUSTRALASIA, ASIA, AND AFRICA,

1873-1885.

PREPARED FROM OFFICIAL RETURNS, AND REDUCED TO AMERICAN MONEY, WEIGHTS, AND MEASURES.

WASHINGTON: GOVERNMENT PRINTING OFFICE.. 1887.

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## LETTER OF TRANSMITTAL.

DEPARTMENT OF STATE,
Washington, February 24, 1887.

SIR: I have the honor to submit a part of statistical abstract of the foreign commerce of the leading nations and countries of the world, other than the United States, during the thirteen years 1873—85. The demands made upon this Department for such information have given evidence of the need of such a compilation, which it is proposed to continue from year to year as occasion may arise. As this is the first attempt to issue an abstract of this nature in so great detail, errors will doubtless be found. Where the official publications of the respective governments were accessible they have been used; reports by the consular officers of the United States have supplemented those publications so far as was possible, but the delay in issuing official figures has prevented that completeness which would be desirable.

The labor of compiling these tables and reducing them to American weights, measures and money has fallen upon Mr. Michael Scanlan, of this Bureau, to whose accuracy and industry whatever praise they merit

belong.

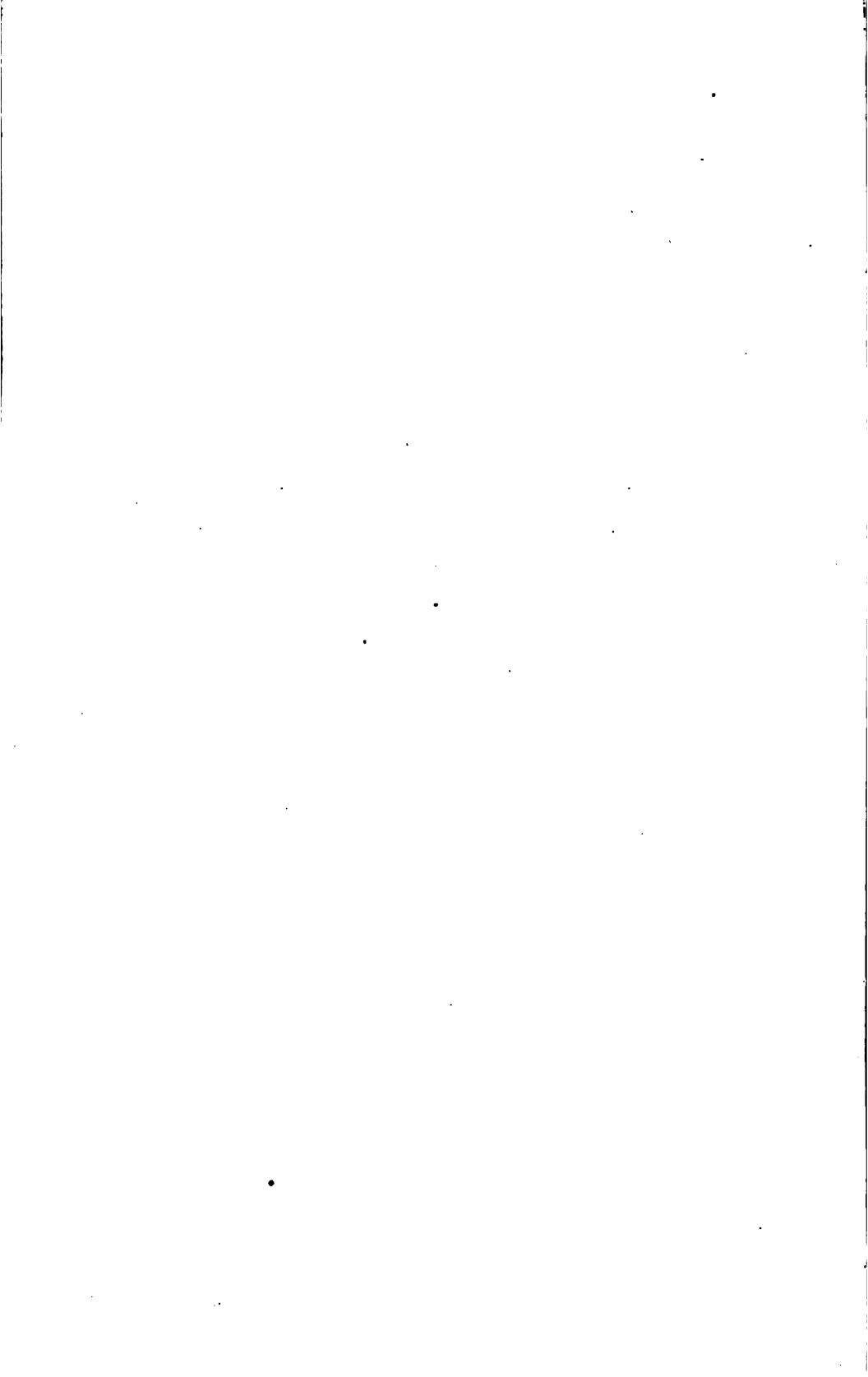
Respectfully,

WORTHINGTON C. FORD,

Chief Bureau of Statistics.

Hon. T. F. BAYARD, Secretary of State.

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[For imports from and exports to the several countries, only the value thereof is given; for imports and exports by articles, from and to the several countries, quantities (where given in official returns) and value are given.]

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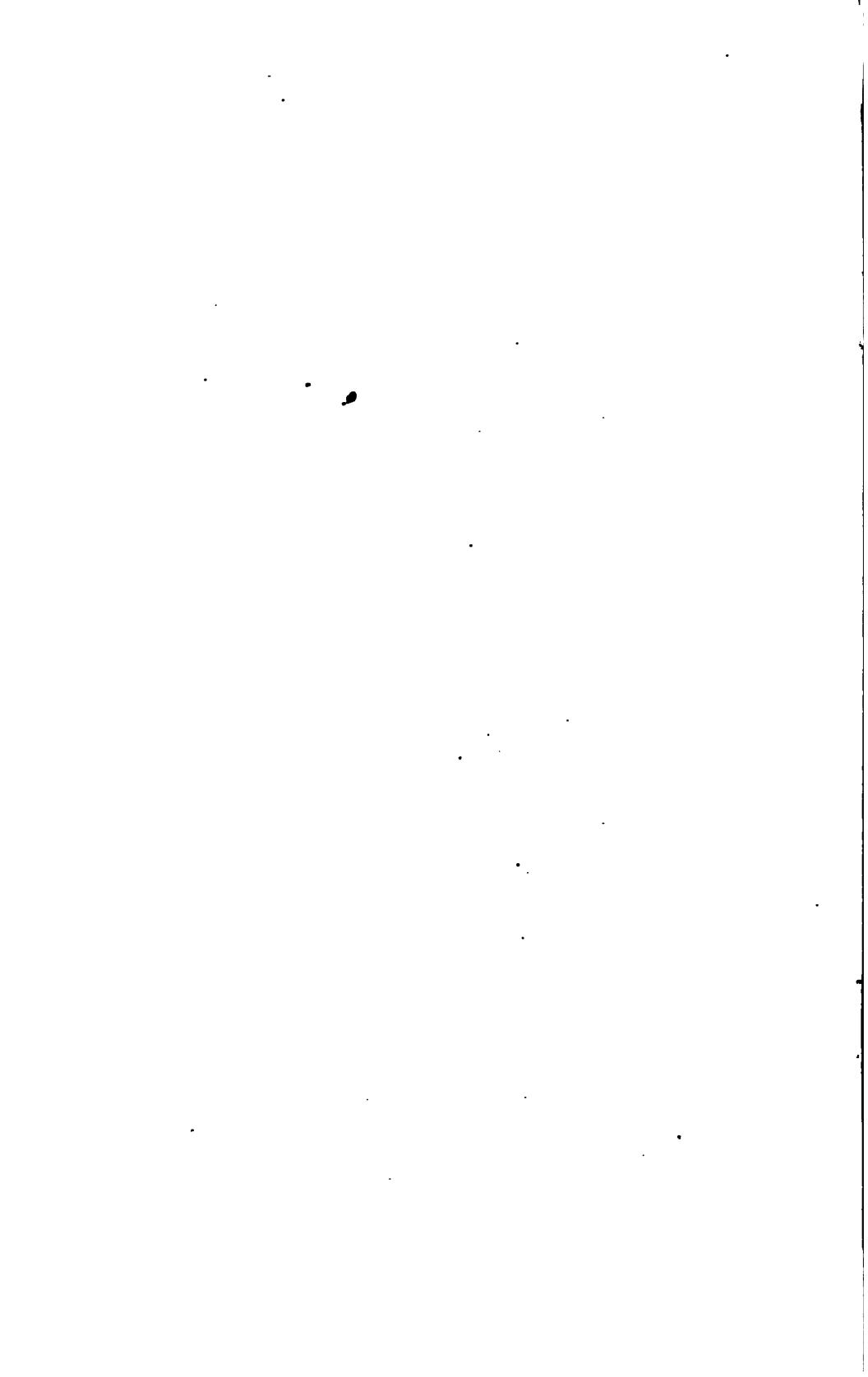
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#### AUSTRIA-HUNGARY.

## Quantities and value of principal articles

Articles.	1878.	1874.	1875.	1876.	1877.
Animals, horses excepted { number dollars number dollars dollars	1, 051, 194	982, 586	1, 048, 235	1, 174, 871	1, 183, 220
	9, 280, 460	7, 790, 485	13, 058, 841	16, 256, 971	16, 963, 094
	10, 838	7, 692	7, 860	10, 614	5, 949
	867, 138	264, 147	822, 176	1, 001, 724	675, 356
Books, printed	1, 963, 830	1, 790, 830	1, 792, 670	1, 733, 270	5, 699, 980 8, 227, 278 1, 650, 000
Coul { dollars	5, 121, 785	4, 655, 475	8, 584, 325	8, 228, 095	2, 460, 874
Coffee	75, 486, 180	71, 688, 980	69, 784, 220	71, 944, 840	74, 475, 720
	11, 917, 025	11, 085, 600	15, 276, 168	14, 703, 401	15, 220, 099
	97, 625, 220	108, 279, 820	118, 519, 060	130, 520, 720	130, 271, 020
( nonnde	17, 353, 012	19, 245, 555	15, 564, 600	13, 820, 599	13, 561, 674
	23, 724, 900	23, 772, 820	26, 440, 480	24, 874, 740	30, 193, 020
Cotton manufactures \ founds	7, 691, 261	8, 056, 490	10, 220, 733 8, 381, 180	7, 432, 072 2, 553, 100 2, 492, 661	8, 058, 846 1, 682, 120
/ donars	53, 741, 160	63, 187, 740	4, 128, 572 72, 274, 620	80, 459, 060	1, 568, 999 69, 548, 160
Dye-stuffs	4, 435, 194	5, 059, 360	5, 712, 423	5, 730, 791	4, 783, 116
	65, 920, 360	80, 217, 060	70, 675, 660	58, 487, 000	73, 653, 140
	6, 429, 171	7, 666, 467	8, 324, 229	4, 719, 748	5, 718, 142
Grain	686, 400	826, 800	222, 000	318, 200	581, 700
	16, 695, 152	20, 066, 605	7, 349, 538	10, 289, 851	18, 145, 871
Hides and skins	15, 294, 400	15, 069, 560	16, 886, 980	18, 691, 860	21, 483, 660
	4, 130, 031	4, 312, 656	4, 520, 128	5, 774, 209	5, 741, 826
Iron, ore and pig	14 005 400		15 207 000	14 004 200	10 481 100
Lesther and leather-ware { dollars	14, 285, 480	13, 932, 380	15, 387, 900	14, 994, 320	16, 451, 160
	7, 554, 419	7, 193, 805	7, 966, 140	7, 069, 058	6, 752, 541
Machinery \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	69, 319	22, 555	22, 232	16, 499	23, 283
	7, 100, 029	4, 624, 006	4, 172, 156	2, 713, 359	2, 816, 760
Oils, mineral					240, 289, 160 7, 040, 448
Oils, olive and linseed { pounds dollars					
Silk and floss silk	1, 452, 440	2, 118, 160	2, 100, 340	2, 359, 720	2, 161, 720
	5, 806, 784	5, 252, 906	4, 861, 434	6, 067, 152	5, 220, 435
Silk manufactures { pounds dollars	913, 880	825, 000	955, 680	710, 820	757, 460
	14, 806, 070	13, 480, 090	7, 164, 387	5, 996, 456	6, 166, 058
Stone manufactures { tons dollars					
Tobacco	42, 590, 790	64, 083, 800	54, 028, 620	82, 882, 000	80, 235, 260
	18, 388, 067	20, 158, 627	16, 128, 483	9, 071, 096	8, 720, 023
Wood manufactures					12, 446, 060 1, 577, 173
Wool	23, 628, 440	84, 587, 140	28, 017, 000	32, 004, 940	40, 586, 700
	6, 723, 834	9, 850, 211	10, 997, 212	11, 217, 363	14, 786, 768
Woolen yarns	6, 167, 260	7, 498, 920	7, 493, 640	6, 081, 240	7, 534, 780
	5, 547, 568	6, 836, 358	6, 167, 193	4, 045, 273	4, 810, 090
Woolen goods	8, 171, 460	7, 817, 860	9, 142, 542	7, 746, 640	5, 810, 640
	10, 146, 781	8, 900, 902	11, 683, 518	8, 984, 452	6, 475, 498
All other articlesdollars	120, 629, 192	106, 671, 784	82, 731, 154	77, 743, 463	58, 271, 112
TOTAL IMPORTSdollars	278, 013 <b>, 49</b> 8	271, 170, 979	240, 428, 610	218, 357, 794	218, 761, 570

AUSTRIA-HUNGARY.

imported and entered for home consumption.

	1						
1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
690, 202	591, 812	889, 055	516, 268	730, 537	982, 845	609, 826	459, 818 5 791 110
10, 104, 822	7, 968, 116	4, 424, 184	7, 186, 227	6, 557, 991	8, 864, 860	5, 976, 368	5, 781, 119
6, 808	10, 097	7, 727	9, 082	10, 245	6, 608	6, 182	4, 895
766, 103	1, 118, 325	852, 019	1, 050, 874	1, 218, 812	751, 078	818, 910	688, 797
5, 700, 420	6, 007, 320	5, 966, 620	6, 815, 540	6, 528, 060	6, 690, 640	6, 772, 920	7, 144, 046
3, 192, 586	3, 692, 286	3, 769, 451	8, 974, 900	4, 072, 180	4, 086, 992	8, 881, 296	4, 044, 721
1, 832, 190	2, <b>454</b> , 680	2, 424, <b>62</b> 0	2, 362, 910	2, 361, 040	2, 605, 020	2, 726, 020	2, 861, 890
2, 157, 259	8, <b>267</b> , 852	8, 725, 564	8, 581, 600	4, 848, 994	4, 187, 518	4, 686, 450	4, 683, 774
87, 788, 800	42, 479, 140	69, 501, 520	85, 845, 700	83, 208, 840	74, 035, 060	78, 051, 880	81, 088, 417
15, 278, 138	7, 003, 834	11, 481, 818	12, 616, 186	12, 696, 026	11, 193, 915	10, 449, 092	10, 249, 047
133, 812, 300	153, 493, 340	153, 217, 900	175, 416, 340	170, 876, 200	228, 616, 520	208, 698, 880	192, 482, 152
13, 757, 942	16, 452, 072	17, 649, 968	17, 992, 656	17, 876, 992	21, 842, 824	20, 017, 410	18, 581, 822
32, 521, 720	24, 676, 520	25, 357, 640	25, 107, 280	25, 245, 140	81, 547, 780	26, 554, 000	20, 759, 696
8, 621, 782	6, 584, 214	8, 217, 461	6, 875, 044	7, 674, 212	7, 853, 184	7, 353, 448	5, 268, 056
2, 255, 220	2, 179, 540	2, 818, 420	3, 127, 960	8, 017, 080	8, 449, 080	4, 308, 040	8, 822, 971
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4, 942, 892	6, 213, 857	4, 790, 864		6, 165, 110	5, 093, 903	5, 588, 318	4, 960, 839
73, 008, 100	79, 428, 580	71, 891, 040	84, 315, 880	94, 414, 540	98, 576, 720	100, 756, 480	93, 171, 896
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538, 300	578, 500	<b>864, 900</b>	717, 800	729, 000	<b>581, 0</b> 00 <b>14, 828, 000</b>	610, 300	717, 732
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7, 029, 126	6, 157, 840	6, 606, 795	7, 558, 897	6, 942, 600	6, 055, 501	5, 851, 794	5, 065, 162
	84, 540	40, 002	44, 096	61, 093	59, 034	59, 976	81, 788
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34, 188, 0 <b>6</b> 0	27, 308, 860	88, <b>952, 60</b> 0	28, 051, 540	29, 461, 960	28, 672, 820	31, 612, 680	84, 128, 430
8, 830, 939	8, 853, 910	11, 440, <b>92</b> 6	9, 718, 753	9, 572, 262	6, 832, 639	11, 826, 682	18, 089, 132
14, 089, 080	28, 884, 680	85, 031, 260	31, 720, 044	38, 141, 900	20, 831, 800	19, 794, 280	19, 496, 584
1, 691, 794	2, 461, 524	2, 743, 559	2, 889, 689	2, 395, 588	1, 781, 919	1, 701, 848	1, 588, 069
42, 441, 080	42, 449, 000	41, 685, 160	46, 898, 440	80, 488, 700	58, 868, 820	56, 288, 320	48, <b>422</b> , 100
13, 042, 289	14, 008, 683	14, 840, 742	16, 853, 667	15, 778, 878	14, 867, 075	15, 830, 960	10, <b>46</b> 0, 874
7, 842, 120	8, 469, 340	8, 088, 080	8, 527, 800	9, 245, 280	9, 815, 460	11, 022, 000	10, 467, 457
4, 523, 675	5, 490, 069	<b>5, 654, 796</b>	5, 356, 527	6, 066, 858	5, 224, 629	5, 170, 766	4, 881, 813
8, 218, 7 <b>6</b> 0	6, 998, 420	7, 288, 660	7, 518, 440	7, <b>689</b> , 720	6, 677, 440	6, 192, 560	4, 905, 222
8, 112, <b>793</b>	7, 890, 837	8, 690, 759	8, 714, 277	<b>9, 074</b> , 100	7, 724, 468	5, 854, 189	5, 428, 798
65, 206, 955	57, 628, 194	77, 567, 771	78, 902, 224	79, 476, 898	77, 712, 780	73, 077, 522	68, 727, 817
222, 496, 703	216, 239, 322	253, 859, 393	261, 280, 915	265, 594, 644	250, 580, 890	243, 828, 964	219, 273, 564

### AUSTRIA-HUNGARY-Continued.

## Quantities and value of principal

Articles.		1873.	1874.	1875.	1876.	1877.
Animals, horses excepted	5 pumber	733, 229	424, 402	744, 250	1, 151, 547	1, 166, 382
·	dollars	9, 671, 597 21, 600	8, 032, 024 26, 795	18, 013, 998 31, 611	85, 887, 118 37, 585	34, 580, 548 *2, 091
Animals, horses	dollars	772, 416	953, 904	2, 423, 409	4, 190, 703	232, 842
Clock-work, jewelry, and	oounds	6, 658, 520	6, 524, 760	<b>6, 568, 9</b> 80	5, 975, 200	6, 274, 620
fancy articles	dollars	28, 080, 457	22, 493, 856	16, 647, 861	15, 716, 382	16, 064, 286
Coal	{ tons } dollars	1, 849, 100 4, 127, 181	2, 376, 830 5, 259, 800	2, 327, 050 4, 809, 501	3, 024, 560 4, 731, 132	3, 048, 870 4, 783, 680
N. 44	Spounds			1, 072, 060	1, <b>29</b> 8, 000	   1, 154, 840
Cotton yarn	dollars	•••••		876, 896	359, 376	817, 100
Cotton goods	dollars	8		4, 412, 760 2, 795, 010	8, 867, 600 2, 149, 485	5, 631, 780 2, 736, 787
Panakhana	<pre>     pounds </pre>			••••••	 	5, 848, 420
Feathers	dollars	04 159 000	138, 714, 180	184, 008, 000	248, 160, 000	8, 044, 160
Flour and meal	{ pounds dollars	84, 153, 800 3, 801, 662	4, 787, 072	8, 318, 892	11, 222, 169	226, 820, 000 17, 715, 924
91	(pounds	46, 150, 280	50, 911, 520	<b>55</b> , 188, 820	   58, 963, 580	52, 824, 720
lass and glassware	{ dollars	7, 127, 663	11, 510, 632	8, 682, 651	7, 007, 457	6, 211, 530
Praint	{ tons } dollars	392, 044 7, 971, 618	511, 940 10, 793, 300	701, 360 27, 694, 155	770, 220 <b>81</b> , 189, 503	1, 073, 000 54, 812, 43
Tone	S pounds			6, 517, 720	2, 733, 940	4, 868, 100
Iops	f gollma		47 974	8, 530, 229 59, 889	1, 606, 440	1, 619, 025 60, 066
ron and iron ware	{ tons } dollars	5, 744, 968	47, 874 7, 809, 256	10, 881, 118	48, 848 <b>8, 643, 24</b> 0	7, 724, 55
enther and leather made	Spounds	5, 098, 060	5, 432, 680	5, 578, 980	5, 907, 220	6, 748, 500
Leather and leather goods	{ dollars { pounds	5, 659, 139	5, 483, 820 16, 915, 580	6, 651, 852 16, 173, 460	7, 100, 822 15, 257, 440	7, 865, 786 17, 158, 900
Linen manufactures	dollars	13, 016, 080 7, 812, 204	9, 109, 108	6, 538, 149	6, 803, 042	5, 868, 50
falt	S pounds	••••	• • • • • • • • • • • • • • • • • • • •			
	{ dollars { pounds	25, 618, 680	29, 619, 040	81, 092, 160	87, 760, 460	42, 167, 84
Paper and manufactures of.	dollars	4, 414, 691	5, 328, 416	4, 272, 696	4, 577, 565	4, 860, 12
Pulse	sbruog ?		· · · · · · · · · · · · · · · · · · ·		108, 216, 460	68, 511, 280
	{ dollars   Counds	(‡) § 913, 860	(1) § 873, 400	8, <b>929</b> , 725 2, 759, 680	8, 119, 811 2, 230, 800	1, 896, 258 2, 835, 800
Silk and silk goods	dollars	6, 016, 739	5, 722, 472	6, 210, 476	6, 182, 544	4, 149, 983
Sugar, raw			138, 959, 700	109, 818, 720	171, 665, 120	202, 073, 080
	{ dollars { pounds	12, 217, 523 Included in	8, 935, 948 raw augar.	4, 083, 059 77, 223, 700	8, 129, 991 97, 202, 600	9, 903, 931 97, 505, 820
Jugar, refined	{ dollars			5, 084, 189	6, 804, 966	8, 782, 934
<b>∀ine</b>	sbruog ?			81, 071, 040	41, 358, 400	85, 796, 20
•	{ dollars		1	1, 833, 291 1, 845, 949	2, 102, 373 1, 956, 418	1, 902, 14° 2, 184, 569
Wood, common	dollars				16, 808, 226	18, 560, 769
Wooden ware	<pre>     pounds } dollars</pre>	••••••		• • • • • • • • • • • • • • • • • • • •		51, 827, 16 4, 634, 19
	pounds	88, 507, 980	27, 009, 620	24, 009, 040	23, 503, 700	24, 834, 26
Wool	{ dollars	18, 887, 002	15, 195, 488	9, 633, 951	12, 079, 698	11, 466, 33
Wool manufactures	Spounds	8, 089, 180	8, 278, 160 7, 579, 488	8, 842, 620 9, 885, 254	8, 288, 500 9, 655, 242	8, 501, 46 9, 437, 84
All other articles	dollars	7, 808, 89 <del>0</del> 78, 864, 475	7, 579, 488 81, 716, 836	71, 408, 436	64, 071, 504	64, 839, 57
TOTAL EXPORTS			210, 710, 920	249, 539, 127	269, 638, 284	301, 970, 70

<sup>\*</sup> Export prohibited.

<sup>†</sup> Pulse included in 1873 and 1874.

AUSTRIA-HUNGARY-Continued.

articles of domestic production exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
870, 478	780, 231	748, 848	756, 964	1, 217, 698	1, 253, 555	903, 865	713, 76
24, 879, 895	18, 244, 980	20, 179, 180	28, 178, 238	25, 504, 514	25, 891, 768	17, 347, 626	10, 648, 51
22, 446	86, 901	38, 436	41, 863	80, 376	29, 083	26, 093	32, 30
2, 915, 961	4, 582, 980	5, 877, 260	6, 713, 872	4, 850, 928	4, 584, 633	4, 471, 530	3, 829, <del>4</del> 9
7, 706, 600	6, 800, 640	6, 593, 180	4, 279, 000	6, 908, 940	7, 592, 640	8, 575, 820	8, 856, 99
21, 254, 760	16, 563, 768	14, 744, 513	15, 676, 012	18, 058, 602	16, 876, 486	19,041,912	17, 513, 25
<b>8, 234,</b> 160 <b>4, 099, 6</b> 50	8, 595, 900 4, 031, 596	4, 069, 670 4, 895, 702	4, 007, 190 4, 831, 090	8, 816, 120 4, 876, 466	4, 450, 050 5, 895, 502	4, 513, 410 6, 081, 838	4, 514, 29 6, 138, 26
1, 427, 800 394, 563	1, 016, 180 291, 456	1, 235, 520 858, 941	1, 591, 920 409, 035	1, 509, 200 898, <b>6</b> 92	1, 875, 060 471, 576	1, 643, 620 420, 686	
6, 865, 100	5, 850, 900	6, 329, 180	7, 500, 900	6, 955, 520	8, 809, 240	7, 980, 940	7, 721, 2
8, 211, 881	2, 750, 615	3, 026, 789	8, 512, 410	8, 168, 534	8, 968, 296	3, 468, 570	3, 182, 7
4, 809, 640	5, 198, 820	7, 888, 700	6, 859, 380	6, 491, 100	7, 168, 260	7, 056, 940	7, 983, 9
2, 756, 052	2, 616, 894	8, 849, 838	8, 271, 873	8, 187, 912	8, 826, 678	8, 460, 212	3, 636, 0
09, 780, 000	589, 440, 000	<b>292</b> , 820, 000	277, 640, 000	407, 000, 000	418, 440, 000	841, 440, 000	883, 465, 20
28, 070, 827	19, 778, 054	10, 147, 823	9, 718, 758	18, 015, 954	12, 582, 979	8, 662, 072	9, 512, 17
80, 087, 720	60, 188, 480	68, 486, 500	72, 491, 100	81, 080, 400	81, 752, 000	89, 546, 160	84, 816, 81
6, 181, 185	6, 850, 760	7, 455, 476	6, 835, 565	8, 179, 276	8, 634, 733	8, 619, 486	7, 819, 5
893, 640 87 100 804	985, 710	683, 210 27, 820, 363	722, 920 28, 638, 962	1, 143, 560 44, 124, 892	739, 090	547, 030	661, 7
87, 190, 894	85, 486, 424	27, 020, 000		10, 121, 002	26, 944, 794	19, 440, 810	20, 505, 50
8, 416, 880	7, <b>254, 7</b> 20	6, 755, 980	8, <b>699</b> , <b>960</b>	8, 256, 600	8, 110, 800	5, 267, 240	7, 087, 5
914, 607 51, 921	2, 729, 825 51, 466	2, 883, 064 102, 892	833, 434 55, 451	6, 113, 932 45, 444	1, 417, 535 46, 755	1, 715, 880 40, 485	1, 632, 24 44, 45
7, 856, 491	7, 901, 604	10, 165, 582	8, 971, 094	6, 783, 854	4, 714, 958	4, 627, 944	4, 372, 5
7, 648, 680	6, 000, 720	6, 146, 140	7, 319, 620	7, 442, 600	7, 821, 440	7, 402, 780	7, 125, 9
8, 826, 253	6, 249, 230	7, 163, 485	7, 710, 208	8, 611, 260	8, 506, 012	8, 152, 632	8, 427, 8
11, 504, 980	11, 518, 920	9, 050, 040	9, 977, 880	9, 137, 920	5, 912, 720	5, 143, 340	4, 029, 7
4, 454, 844	8, 885, 890	4, 019, 729	4, 232, 526	8, 712, 870	2, 270, 061	2, 069, 202	1, 488, 69
20, 782, 040	142, 562, 860	144, 951, 840	160, 018, 760	170, 674, 094	183, 232, 500	202, 090, 021	208, 491, 5
3, 480, 399	8, 755, 809	8, 945, 802	4, 292, 629	4, 567, 094	5, 009, 693	5, 484, 042	5, 013, 8
4R, 833, 840	47, 051, 840	54, 391, 480	62, 885, 460	<b>69</b> , 565, 280	73, 011, 840	90, 320, 120	111, 920, 4
4, 669, 071	8, 812, 112	<b>8, 246, 9</b> 06	8, 610, 090	3, 247, 591	3, <b>42</b> 0, <b>9</b> 31	3, 964, 876	4, 505, 47
<b>96, 268, 38</b> 0	<b>171, 699, 440</b>	104, 800, 020	115, 548, 120	<b>125, 862, 000</b>	142, 255, 960	111, 168, 642	105, 922, 69
2, 898, 192	4, 846, 398	2, 741, 081	8, 636, 696	8, 782, 702	3, 889, 299	2, 815, 452	2, 832, 74
2, 176, 680	2, 497, 810	3, 701, 500	2, 858, 460	2, 036, 340	2, 964, 940	2, 737, 680	3, 016, 39
4, 701, 234	4, 741, 956	3, 797, 122	4, 514, 144	4, 229, 708	6, 027, 832	4, 805, 054	4, 499, 00
36, 016, 600	283, 244, 060	<b>358, 591, 64</b> 0	403, 397, 400	873, 042, 440	290, 880, 320	401, 578, 100	278, 449, 1
8, 782, 934 50, 004, 700	12, 792, 186	14, 513, 646	18, 507, 918	11, 674, 530	12, 884, 083	11, 681, 696	8, 909, 09
59, 024, 700 1 <b>0, 586</b> , 610	168, 896, 660 10, 289, 744	156, 723, 166 9, 243, 766	203, 899, 520 11, 886, 028	229, 013, 400 14, 766, 220	282, 030, 980 15, 684, 714	311, 532, 760 12, 850, 624	253, 415, 47 10, 936, 01
18, 870, 100	<b>95, 628,</b> 280	199, 278, 420	96, 406, 860	90, 293, 940	89, 469, 600	99, 164, 340	128, 018, 01
<b>2</b> , <b>3</b> 21, <b>6</b> 45	2, <b>971, 47</b> 0	6, 418, 020	8, 603, 171	3, 715, 356	3, <b>790</b> , 653	4, 331, 832	5, 510, 2
2, 0-0, 789	1, 891, 579	1, 920, 490	2, 108, 48	2, 210, 010	2, 323, 860	2, 448, 820	2, 460, 87
17, 650, 692	17, 787, 822	18, 493, 31 <del>4</del>	19, 009, 956	20, 911, 842	25, 094, 981	24, 457, 412	24, 616, 73
50, 184, 180	<b>65</b> , 568, 140	73, 126, 460	<b>72, 535, 76</b> 0	72, 607, 700	62, 921, 760	61, 842, 000	61, 672, 16
5, 190, 028	5, 451, 968	6, 573, 721	6, 469, 672	7, 125, 300	7, 061, 610	6, 914, 852	<b>6, 9</b> 39, 98
18, 741, 860	16, 775, 220	26, 503, 180	20, 818, 820	21, 839, 340	27, 038, 220	25, 024, 560	20, 272, 83
<b>6, 682, 39</b> 3	6, 213, 726	10, 848, 271	8, 045, 576	8, 173, 874	9, 866, 605	8, 725, 854	5, 470, 16
9, 589, 140	10, 865, 860	9, 608, 720	11, 800, 140	11, 558, 800	10, 289, 600	11, 180, 840	10, 806, 1
11, 87 <b>6, 64</b> 2	11, 433, 024	10, 077, 618	12, 846, 845	12, 190, 150	10, 520, 636	10, 592, 770	8, 585, 47
71, 279, 610	67, 628, 864	68, 204, 015	72, 253, 400	68, 986, 502	71, 520, 373	71, 014, 034	78, 102, 81
			297, 708, 697		800, 857, 421		

<sup>‡</sup> Included with grain.

<sup>§</sup> Silk manufactures only.

#### RELGIUM.

## Value of imports from principal

Countries.	1878.	1874.	1875.	1876.	1877.
Russia	Dollars.	<b>Dollars.</b>	Dollars.	Dollars.	Dollars.
	14, 000, 413	17, 785, 915	15, 757, 897	22, 148, 101	15, 826, 000
	4, 711, 130	4, 996, 577	5, 314, 062	5, 655, 865	5, 076, 093
DenmarkGermany	1, 888, 867	1, 003, 021	620, 037	528, 069	277, 148
	83, 105, 290	32, 202, 436	38, 118, 221	37, 782, 259	41, 643, 031
HollandUnited Kingdom	84, 554, 834	83, 040, 249	82, 720, 448	85, 708, 088	37, 980, 277
	50, 807, 829	39, 400, 757	48, 109, 689	48, 037, 814	41, 026, 396
FranceSpain	64, 678, 327	62, 936, 914	68, 773, 041	68, 041, 764	68, 330, 106
	4, 282, 284	2, 430, 642	2, 186, 197	2, 313, 684	4, 561, 169
ItalySwitzerland	1, 182, 524	1, 464, 484	1, 770, 003	2, 247, 292	2, 106, 955
	295, 403	426, 144	845, 470	831, 960	266, 147
AsiaUnited States	2, 356, 373	1, 091, 608	1, 958, 950	8, 768, 500	8, <b>296, 63</b> 3
	26, 225, 226	23, 805, 392	13, 639, 117	21, 404, 472	<b>23, 612, 77</b> 8
BrazilUruguay	4, 071, 628	2, 834, 591	3, 975, 414	2, 493, 174	8, 326, 548
	7, 686, 611	6, 859, 929	5, 146, 781	4, 663, 073	8, 077, 964
Argentine Republic	18, 774, 217	9, 699, 022	9, 213, 820	11, 100, 588	12, 255, 500
	8, 728, 742	8, 237, 882	3, 644, 419	5, 007, 771	4, 910, 885
All other countries	7, 791, 727	6, 730, 296	5, 978, 521	8, 343, 562	7, 681, 619
TOTAL IMPORTS	274, 585, 925	249, 445, 35 <del>9</del>	<b>252, 27</b> 2, 087	279, 570, 536	275, 255, 240

## Value of domestic produce exported to

Countries.	1878.	1874.	1875.	1876.	1877.
RussiaSweden and Norway	Dollars. 2, 428, 694 1, 629, 985	Dollars. 2, 701, 895 1, 646, 483	Dollars. 8, 555, 060 1, 700, 909	Dollars. 3, 719, 111 2, 000, 831	Dollars. 4, 869, 104 1, 822, 113
Denmark	369, 209	530, 557	770, 649	762, 736	781, 843
	51, 350, 352	<b>46, 922, 160</b>	47, 144, 496	47, 154, 146	42, 994, 031
Holland	25, <b>45</b> 9, 788	30, 234, 994	28, 979, 529	31, 910, 813	31, 970, 450
United Kingdom	<b>46, 696,</b> 850	42, 911, 041	40, 267, 906	86, 990, 766	43, 948, 802
FranceSpain	73, 851, 966	66, 276, 586	66, 395, 281	60, 628, 441	57, 122, 596
	2, 140, 560	1, 676, 112	1, 805, 129	8, 567, 991	2, 912, 756
Italy	2, 502, 245	4, <b>322</b> , 814	3, <b>839</b> , 800	2, 232, 238	4, 485, 027
Switzerland	8, 838, 128	4, <b>229</b> , 981	1, <b>262</b> , 799	5, 855, 041	3, 351, 252
AsiaUnited States	308	75, 849	287, 763	388, 921	508, 964
	8, 144, 163	<b>8, 592, 8</b> 88	<b>3, 194, 9</b> 22	2, 206, 569	2, 027, 465
Brasil	1, 468, 587	1, 959, 143	1, 654, 975	1, 510, <b>99</b> 7	2, 566, 128
	1, 422, 603	934, 120	833, 953	797, <b>4</b> 76	1, 454, 062
Chili and Peru	1, 867, 212	1, 136, 963	1, 136, 963	1, 835, 946	1, 945, 054
	6, 940, 066	5, 974, 434	10, 610, 318	4, 245, 587	5, 988, 983
TOTAL EXPORTS	228, 605, 168	215, 125, 520	212, 640, 452	205, 807, 610	208, 808, 630

BELGIUM.

## countries—merchandise only.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
25, 029, 205	28, 161, 981	24, 444, 994	22, 813, 758	26, 764, 661	25, 791, 862	23, 907, 489	17, 967, 335
5, 565, 848	6, 413, 583	6, 856, 984	6, 287, 554	6, 762, 141	6, 738, 402	7, 845, 194	7, 662, 872
432, 518	858, 015	250, 128	862, 167	148, 224	108, 659	103, 448	416, 108
45, 666, 502	<b>42, 501, <del>49</del>5</b>	47, 293, 299	44, 203, 562	46, 880, 086	44, 988, 800	85, 786, 639	85, 921, 558
36, 078, 841	88, 929, 451	45, 647, 974	47, 856, 796	45, 955, 809	40, 584, 058	86, 193, 290	87, 949, 976
37, 490, 636	88, 558, 119	49, 288, 789	46, 376, 163	88, 256, 267	88, 187, 945	35, 677, 238	82, 598, 871
62, 870, 073	59, 657, 972	64, 600, 839	64, 779, 292	61, 295, 256	59, 279, 178	53, 488, 594	49, 897, 448
4, 388, 627	8, 552, 551	4, 664, 038	3, 587, 677	4, 124, 796	1, 822, 806	1, 682, 574	1, 405, 426
1, 205, 671	1, 654, 975	1, 871, 265	1, 829, 061	2, 306, 157	4, 416, 419	8, 976, 150	2, 970, 849
192, 807	210, 870	271, 175	206, 484	478, 447	518, 959	692, 098	768, 719
2, 074, 171	2, 955, 023	8, <b>492</b> , 721	9, 670, 844	18, 825, 748	15, 606, 366	12, 462, 589	18, 274, 847
88, 942, 881	44, 327, 661	52, 325, 365	48, 044, 018	85, 771, 199	80, 798, 922	81, 009, 889	23, 236, 621
4, 047, 017	8, 537, 497	3, 666, 228	8, 879, 107	8, 584, 010	4, 297, 145	2, 950, 584	5, 007, 578
3, 063, 296	8, 560, 464	4, 865, 863	4, 056, 474	5, 036, 651	8, 115, 985	4, 260, 475	4, 895, 831
10, 429, 877	7, 688, 784	7, 614, 622	6, 817, 855	8, 708, 528	9, 348, 148	11, 888, 589	10, <b>687, 002</b>
6, 984, 491	5, 904, 256	1, 621, 972	1, 401, 759	2, 569, 023	1, 269, 168	8, 647, 507	2, 21 <b>4, 482</b>
5, 882, 046	6, 489, 818	6, 685, 950	8, 892, 725	7, 795, 849	12, 831, 026	10, 156, 438	18, 155, 241
284, 243, 452	294, 461, 065	824, 412, 156	814, 565, 296	310, 259, 852	299, 642, 843	275, 168, 785	259, 980, 264

## principal countries—merchandise-only.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 4, 426, 455	Dollars. 8, 274, 631	Dollars. 2, 551, 460	Dollars. 2, 080, 540	Dollars. 1, 887, 926	Dollars. 1, 559, 826	Dollars. 1, 532, 227	Dollars. 1, 185, 792
1, 307, 575 425, 179 42, 542, 990	1, 266, 852 512, 029 47, 937, 726	1, 560, 405 545, 997 45, 144, 244	1, 593, 215 877, 185 48, 391, 043	765, 438 43, 785, 524	1, 391, 916 690, 747 44, 272, 270	1, 886, 126 1, 029, 462 45, 594, 518	1, 486, 118 1, 409, 865 42, 091, 756
28, 206, 371	80, 131, 100	29, 176, 003	80, 943, 888	81, 882, 186	84, 421, 936	84, 007, 565	85, 2 <b>63, 22</b> 3
48, 142, 414	44, 454, 848	47, 639, 734	49, 095, 147	50, 548, 244	52, 803, 642	48, 663, 406	45, 901, 883
63, 559, 725	71, 818, 774	77, 054, 285	80, 059, 681	85, 184, 024	80, 184, 745	79, 519, 052	62, 120, 138
3, 629, 172	3, 774, 694	8, 865, 211	5, 438, 161	5, 918, 588	7, 462, 845	6, 374,790	4, 951, 608
2, 580, 037	5, 549, 136	8, 955, 216	5, 548, 750	5, 179, 541	5, 952, 892	6, 374, 790	5, 926, 258
3, 696, 886	4, 844, 188	5, 864, 691	4, 715, 955	4, 801, 261	4, 251, 790	6, 023, 916	6, 008, 862
757, 718	1, 486, 679	1, 963, 003	1, 231, 538	2, 101, 884	2, 478, 699	2, 370, 812	2, 420, 794
1, 796, 251	3, 785, 502	6, 995, 092	8, 228, 169	8, 622, 661	8, 365, 006	7, 634, 887	6, 403, 938
4, 556, 730	3, 996, 451	2, 570, 953	8, 990, 661	2, 735, 196	1, 941, 887	1, 952, 774	2, 744, 460
1, 339, 227	1, 828, 612	1, 040, 849	2, 090, 190	2, 867, 145	1, 969, 179	875, 834	2, 110, 262
2, 194, 410	968, 456	774, 702	1, 518, 910	1, 285, 187	787, 260		558, 928
5, 573, 846	5, 080, 725	4, 129, 168	5, 612, 287	6, 671, 171	10, 739, 678	11, 449, 875	11, 067, 204
214, 683, 936	229, 745, 468	284, 881, 018	251, 415, 810	255, 902, 174	259, 223, 318	258, 188, 447	281, 600, 579

#### BELGIUM-Continued.

## Quantities and value of principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Animals, horses ex-{number	427, 983	872, 721	887, 426	853, 182	441, 042
	9, 170, 588	7, 387, 268	8, 518, 037	8, 490, 649	12, 274, 221
Coffee { pounds { dollars	60, 770, 600	41, 848, 400	48, 162, 400	58, 240, 600	44, 849, 200
	10, 463, 302	8, 720, 819	10, <b>85</b> 5, 433	11, 872, 588	9, 425, 155
Cotton { pounds { dollars	89, 683, 600	45, 078, 000	40, 147, 800	42, 226, 800	44, 627, 000
	6, 955, 334	7, 778, 479	6, 444, 849	5, 826, 670	5, 364, 242
Cotton manufactures { pounds } dollars	2, 638, 503	2, 694, 859	2, 900, 404	2, 895, 709	2, 884, 200 2, 086, 523
Dyes and dyestuffs { pounds dollars	88, 962, 000	45, 509, 200	48, 424, 200	51, 409, 600	43, 929, 200
	1, 742, 211	2, 080, 167	1, 818, 446	2, 200, 972	1, 997, 357
Grain, all kinds { tons	766, 825	833, 100	755, 378	1, 018, 128	887, 755
	44, 698, 975	45, 647, 009	85, 254, 538	48, 916, 552	48, 198, 855
Hides, raw	92, 801, 000	75, 185, 000	78, 887, <b>6</b> 00	70, <b>626</b> , 600	66, 037, 200
	17, 814, 093	14, 510, 898	18, 057, 415	8, 05 <b>4</b> , 662	8, 221, 221
Horses { number { dollars	9, 776	9.092	8, <b>395</b>	8, 652	7, 758
	1, 258, 728	1, 159, 851	1, 105, 811	1, 102, 223	<b>963, 649</b>
Iron, ore and pig { tons	923, 227	986, 838	1, 046, 382	966, 237	1, 064, 287
	7, 479, 278	6, 212, 477	6, 221, 355	6, 990, 846	6, 984, 297
Manure { tons dollars	187, 400	107, 800	148, 875	166, 168	127, 150
	6, 027, 197	4, 704, 375	6, 810, 907	7, 749, 915	6, 764, 143
Meat { pounds } dollars	65, 577, 600	23, 144, 000	10, 674, 000	28, 877, 800	88, 687, 000
	8, 629, 609	3, 045, 733	1, 404, 847	8, 764, 164	5, 090, 761
Metals and minerals $*$ $\{$ tons $\}$ dollars	360, 708	297, 558	266, 974	234, 874	857, 094
	8, 860, 244	7, 309, 103	6, 557, 175	8, 080, 831	8, 761, 464
Resin and bitumen $\dagger \dots \begin{cases} \text{pounds} \dots \\ \text{dollars} \end{cases}$	290, 782, 800	284, 928, 600	306, 664, 600	281, 393, 200	348, 086, 200
	9, 487, 108	7, 097, 382	7, 289, 996	8, 667, 437	9, 741, 289
Seeds, oil	147, 422, 000	189, 004, 800	191, 996, 200	227, 361, 200	168, 610, 200
	5, 178, 172	4, 268, 002	5, 895, 185	6, 881, 003	5, 472, 901
Silk { pounds } doilars	192, 390	341, 391	859, 404	550, 581	478, 808
	1, 856, 660	2, 845, 206	6, 031, 443	5, 313, 097	8, 242, 014
Silk manufactures   pounds   dollars	438, 149	445, 407	470, 826	457, 404	374, 174
	5, 319, 852	4, 298, 110	3, 717, 573	5, 015, 877	2 954, 251
Tallow { pounds { dollars	71, 879, 000	54, 021, 000	44, 244, 200	55, 992, 200	55, 129, 800
	6, 261, 885	4, 738, 922	4, 269, 546	5, 403, 228	5, 320, 045
Vegetable fibers { pounds } dollars	111, 837, 000	106, 053, 200	104, 935, 600	102, 740, 000	120, 293, 800
	12, 458, 343	11, 080, 516	14, 350, 129	12, 765, 985	14, 911, 375
Wine { gallons dollars	5, 212, 461	4, 524, 428	6, 579, 349	6, 738, 918	5, 067, 010
	4, 137, 920	3, 680, 896	5, 025, 720	4, 634, 316	4, 037, 367
Wood for building { cubic meters dollars	477, 567	478, 792	474, 736	459, 884	418, 404
	9, 181, 818	9, 426, 506	8, 859, 279	8, 473, 472	7, 494, 769
Wool	117, 436, 000	112, 518, 800	100, 815, 000	114, 191, 000	107, 698, 800
	23, 180, 072	22, 170, 103	22, 111, 624	80, 052, 802	30, 698, 387
Woolen manufacturesdollarsdollarsdollarsdollars	5, 133, 993	5, 079, 874	5, 165, 645	4, 962, 030	4, 435, 883
	66, 667, 040	63, 560, 804	69, 612, 180	71, 955, 948	71, 865, 630
TOTAL DIPORTSdollars	274, 585, 925	249, 445, 859	252, 272, 037	279, 570, 536	275, 255, 249

<sup>\*</sup>Except iron, copper, tin, and coal.

<sup>†</sup> Including petroleum.

BELGIUM-Continued.

imported and entered for home consumption.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
428, 732	430, 866	489, 209	482, 037	503, <b>99</b> 1	548, 635	456, 986	402, 791
10, 862, 426	10, 521, 588	12, 440, 894	10, 537, 221	10, 304, 270	12, 409, 321	10, 874, 136	10, 414, 85 <del>9</del>
50, 773, 800	54, 916, 400	50, 061, 000	56, 900, 800	62, 053, 200	62, 715, 400	44, 860, 000	57, 806, 280
9, 291, 599	8, 703, 721	8, 747, 339	8, 414, 028	7, 394, 795	7, 250, 238	5, 418, 264	6, 015, 038
48, 320, 800	47, 874, 200	51, 429, 400	65, 164, 000	55, 499, 400	52, 559, 400	54, 454, 400	88, 155, 820
6, 184, 685	6, 851, <b>69</b> 3	8, 337, 214	7, 062, 642	7, 536, 650	7, 352, 528	6, 796, 802	4, 179, 801
3, 234, 000	8, 313, 200	3, 8 <b>67, 6</b> 00	8, 966, 600	4, 369, 200	4, 701, 400	4, 870, 800	5, 439, 735
2, 175, 689	2, 271, 417	2, <b>63</b> 0, 783	2, 689, 455	2, 669, 576	2, 917, 967	2, 695, 631	2, 707, 983
<b>42, 545, 800</b> 1, 892, 172	46, 789, 600	51, 889, 200	50, 144, 600	52, 283, <b>0</b> 00	62, 524, 000	68, 976, 600	80, 815, 455
	2, 211, 894	2, 108, 718	2, 879, 111	2, 689, 648	2, 612, 448	2, 625, 765	3, 006, 361
1, 196, 432	1, 458, 072	1, 336, 776	1, 802, 426	1, 446, 504	1, 411, 440	1, 430, 979	1, <b>295</b> , 866
55, 749, 015	64, 979, 433	<b>64,</b> 72 <b>2, 93</b> 6	62, 405, 778	66, 868, 131	53, 159, 148	50, 411, 021	<b>42, 668</b> , 054
71, 491, 200	<b>69, 982,</b> 000	85, 818, 200	66, 140, 800	74, 808, 800	89, 291, 400	81, 463, 800	<b>92, 763, 120 14, 805, 995</b>
8, 153, 285	<b>7, 981,</b> 129	11, 227, 003	9, 863, 844	11, 156, 553	14, 160, 021	12, 863, 836	
9, 180	8, 328	8, 783	8, 874	10, 610	11, 172	12, 174	14, 306
1, 170, 738	1, 130, 401	1, 176, 914	1, 178, 458	1, 528, 849	1, <b>63</b> 8, 184	1, 807, 638	2, 182, 071
1, 144, 922	886, 914	1, 258, 294	1, 508, 108	1, 581, 401	1, 980, 862	1, 790, 891	1, <b>666</b> , 115
7, 617, 824	6, 445, <b>6</b> 21	4, 928, 044	5, 236, 476	5, 210, 035	6, 094, 940	4, 953, 924	<b>4</b> , 896, 926
158, 717	125, 116	72, 810	68, 893	77, 528	40, 335	68, 316	44, 829
8, 295, 526	6, 788, 402	3, 638, 050	8, 864, 762	8, 839, 735	1, 590, 899	3, 047, 470	1, 772, 705
<b>66,</b> 880, 000	81, 593, 600	84, 957, 400	51, 471, 200	48, 960, 400	81, 783, 400	20, 706, 400	26, 107, 20 <sub>0</sub>
8, 800, 607	10, 786, 783	11, 179, 525	6, 673, 142	3, 179, 289	4, 182, 503	8, 451, 612	4, 841, 728
441, 404 10, 871, 304	<b>369, 689</b> <b>9, 097, 0</b> 35	419, 162 12, 206, 164	410, 194 10, 075, 951	509, 654 12, 518, 945	7, 675, 803	6, 848, 991	7, 520, 245
864, 315, 600	815, 495, 400	878, 890, 000	448, 155, 400	401, 808, <b>6</b> 00	898, 607, 000	481, 969, 400	445, 478, 855
7, 990, 200	6, 016, 582	7, 405, 603	8, 001, 973	7, 465, <b>6</b> 26	7, 857, 416	8, 799, 835	8, 294, 666
189, 758, 800	220, 074, 800	<b>269</b> , 222, 800 8, 030, 151	908, 136, 400	806, 664, 600	397, 034, 000	849, 492, 000	857, 904, 575
5, 826, 477	6, 178, 223		9, 190, 853	8, 601, 861	11, 145, 750	9, 197, 608	9, 282, 835
471, 502	435, 665	472, 076	458, 607	490, 888	288, 094	455, 628	<b>330, 283</b>
2, 891, 333	2, 485, 647	2, 816, 063	2, 816, 256	3, 014, 467	1, 769, 231	2, 804, 676	<b>2,</b> 023, 02 <b>6</b>
890, 550	352, 891	438, 473	498, 938	402, 586	363, 728	834, 239	815, 281
2, 740, 986	2, 321, 790	<b>2</b> , 692, 543	2, 845, 013	2, 829, 896	2, 061, 626	1, 905, 875	1, 793, 742
59, 890, 600	65, 421, 400	78, 135, 200	51, 451, 400	<b>54</b> , 135, 400	57, 919, 400	54, 815, 200	71, 757, 815
4, 991, 366	4, 878, 268	6, 169, 032	4, 062, 264	4, 749, 151	5, 386, 051	4, 808, 788	5, 024, 725
122, 515, 800 13, 657, 066	135, 863, 200 15, 993, 524	150, 088, 400 19, 222, 993	146, 733, 400 17, 838, 990	151, 731, 800 17, 121, 416	17, 327, 926	17, 398, 757	13, 893, 491
4, 899, 816	5, 271, 281	5, 898, 593	4, 981, 457	5, 457, 172	4, 784, <b>662</b>	5, 855, 681	5, 236, 641
3, 918, 479	4, 184, 639	4, 342, 886	4, 023, 278	4, 327, 832	3, 868, 878	4, 801, 005	4, 203, 926
440, 854	462, 940	512, 673	495, 370	53 <b>6</b> , <b>97</b> 2	9, 319, 970	491, 382	511, 012
<b>8, 033, 62</b> 5	8, 659, 138	9, 942, 781	9, 583, 994	<b>10</b> , <b>2</b> 0 <b>6</b> , <b>22</b> 6		8, 744, 251	9, 116, 741
103, 270, 200	95, 281, 400	108, 883, 000	100, 119, 800	125, 411, 000	106, 387, 600	80, 117, 400	96, 583, 410
28, 294, 572	27, 151, 819	85, 655, 899	84, 254, 605	22, 003, 930	18, 661, 188	13, 913, 909	14, 794, 222
4, 235, 578	8, 718, 838	4, 534, 342	4, 389, 978	4, 286, 530	4, 017, 681	4, 057, 825	4, 235, 964
70, 599, 400	75, 254, 460	80, 262, 259	81, 577, 224	91, 262, 436	97, 182, 626	87, 946, 666	83, 855, 660
284, 243, 452	294, 461, 065	824, 412, 156	314, 565, 296	<b>810, 259, 852</b>	299, 642, 843	275, 168, 785	259, 980, 264

BELGIUM-Continued.

## Quantities and value of principal

Artioles.	1878.	1874.	1875.	1876.	1877.
Armsdollars  Butter	2, 758, 838	3, 228, 890	8, 391, 589	2, 788, 605	2, 611, 290
	10, 777, 800	10, 802, 000	10, 043, 000	9, 798, 000	9, 629, 400
	2, 931, 091	3, 032, 416	2, 819, 587	2, 922, 985	2, 678, 424
Candles	12, 535, 600	13, 074, 600	10, 414, 800	7, 828, 200	12, 394, 800
	2, 749, 285	2, 867, 594	2, 283, 962	1, 715, 577	2, 718, 598
Coal { tons } dollars	4, 574, 000	4, 292, 000	4, 470, 000	4, 211, 000	8, 866, 000
	21, 265, 512	15, 81d, 850	15, 686, 847	18, 800, 209	10, 175, 925
Coke	882, 200	658, 900	710, 600	628, 100	638, 600
	6, 809, 040	8, 352, 796	8, 989, 826	2, 865, 857	2, 832, 984
	8, 111, 932	2, 064, 261	8, 441, 576	8, 079, 894	8, 859, 744
Flax { tons } dollars Glass and glassware dollars	36, 763	40, 942	83, 282	22, 950	36, 232
	14, 512, 828	15, 803, 805	17, 518, 224	11, 275, 060	14, 621, 873
	6, 076, 798	7, 559, 424	7, 729, 457	7, <b>433</b> , 009	7, 291, 926
Grain of all kinds { tons dollars	228, 189	271, 677	<b>203</b> , 711	852, 024	807, 817
	11, 770, 491	14, 877, 585	8, 71 <b>6</b> , <b>6</b> 52	15, 715, 604	14, 675, 874
Hides, raw	55, 565, 400	54, 786, 600	55, 818, 400	58, 394, 600	44, 147, 400
	10, 722, 308	10, 573, 891	9, 803, 758	6, 659, 658	5, 422, 142
Horses { number { dollars	9, 785	9, 447	12, 212	10, 774	10, 155
	1, <b>256</b> , 237	1, 210, 689	1, 575, <b>6</b> 52	1, 367, 598	1, 304, 878
Iron, wrought, &c	190, 827	225, 195	200, 985	182, 777	191, 850
	10, 934, 801	11, 648, 129	9, 529, 182	8, 740, 777	9, 184, 291
	5, 706, 045	4, 812, 585	4, 197, 171	8, 856, 077	8, 824, 681
Linen and hemp yarn { pounds dollars dollars	10, 524, 800	15, 556, 200	21, 857, 000	19, 118, 000	20, 787, 800
	5, 419, 054	7, 127, 688	10, 884, 042	8, 720, 126	8, 688, 860
	9, 847, 955	9, 061, 229	9, 170, 202	8, 515, 160	12, 644, 660
Paper, and paper hangings { pounds dollars	34, 584, 000	81, 790, 000	84, 579, 600	38, 913, 600	41, 267, 600
	8, 892, 940	3, 104, 791	8, 454, 507	8, 875, 826	4, 069, 984
Rosins and bitumens { tons dollars Stone, rough and hewndollars	70, 025	72, 832	91, 000	86, 708	93, 466
	4, 762, 275	8, 605, 819	4, 881, 293	5, 624, 020	5, 412, 492
	8, 011, 044	7, 565, 178	7, 764, 911	9, 778, 718	10, 415, 245
Sugar, raw { tons { dollars	69, 838	78, 832	75, 877	64, 006	51, <b>6</b> 85
	7, 298, 874	7, 884, 050	7, 189, 057	6, 176, 579	<b>5, 894, 418</b>
Tallow	58, 546, 400	44, 644, 600	36, 865, 400	47, 097, 600	44, 202, 400
	5, 136, 116	8, 916, 549	8, 557, 569	4, 544, 957	4, 265, 498
Woolen yarn	16, 629, 800	10, 887, 800	10, 056, 200	8, 115, 700	10, 796, 000
	13, 814, 554	9, 528, 217	9, 235, 822	7, 628, 711	9, 435, 770
	7, 639, 905	8, 181, 270	8, 034, 204	7, 517, 929	6, 599, 635
Zinc, unwrought	77, 422, 400	68, 725, 800	79, 054, 800	79, 021, 800	98, 137, 000
	4, 787, 172	8, 936, 235	4, 507, 901	4, 505, 971	5, 310, 974
	53, 895, 573	55, 886, 129	54, 277, 511	57, 203, 708	55, 868, 979
TOTAL EXPORTS	223, 605, 168	215, 125, 520	212, 640, 492	205, 807, 610	<b>20</b> 8, <b>8</b> 08, <b>6</b> 30

BELGIUM-Continued.

articles of domestic produce exported.

1878.	1879.	1880.	1881.	1832.	1883.	1884.	1885.
2, 688, 683	2, 531, 888	2, 795, 412	2, 627, 888	2, 736, 938	2, 669, 983	2, 533, 125	2, 187, 070
12, 078, 000	11, 508, 200	10, 185, 400	9, 343, 400	8, 518, 400	9, 185, 000	9, 611, 800	10, 085, 670
3, 072, 560	2, 867, 401	2, 845, 206	2, 623, 063	2, 316, 886	2, 546, 056	2, 860, 776	2, 457, 550
12, 731, 400	18, 085, 600	13, 048, 200	18, 867, 800	12, 262, 800	12, 700, 600	14, 977, 600	11, 721, 880
2, 780, 551	2, 870, 103	2, 861, 610	4, 028, 296	2, 689, 262	2, 785, 376	8, 284, 860	2, 051, 970
4, 728, 000	4, 660, 000	4, 977, 500	4, 924, 700	4, 721, 200	4, 885, 100	5, 080, 900	4, 816, 000
10, 884, 428	11, 445, 093	12, 564, 493	12, 269, 010	12, 011, 162	12, 429, 007	11, 012, 872	10, 509, 078
634, 700	655, 600	935, 000	1, 065, 000	1, 204, 500	1, 096, 700	989, 400	933, 900
2, 170, 092	1, 840, 641	8, 282, 851	8, 407, 801	4, 309, 690	4, 039, 490	2, 967, 361	2, 866, 629
3, 615, 469	8, 088, 754	5, 455, 531	4, 616, 560	4, 361, 221	4, 026, 752	4, 040, 069	8, 176, 464
32, 795	86, 110	31, 039	29, 909	84, 838	81, 621	82, 240	44, 181
12, 946, 633	14, 572, 465	18, 069, 960	12, 069, 641	13, 447, 661	12, 205, 899	14, 760, 833	10, 828, 072
7, 635, 659	8, 842, 618	9, 628, 884	10, 506, 920	10, 136, 167	10, 924, 186	9, 842, 358	9, 418, 786
487, 775	627, 919	502, 894	545, 040	574, 934	515, 830	558, 087	415, 758
18, 933, 686	26, 156, 825	23, 864, 194	24, 808, 220	25, 864, 895	18, 851, 275	19, 174, 743	18, 086, 365
55, 444, 400	55, 299, 200	54, 875, 200	57, 901, 800	52, 897, 400	52, 705, 400	62, 587, 800	69, 662, 565
6, 311, 486	6, 806, 661	7, 155, 475	8, 685, 206	7, 814, 877	8, 822, 546	9, 883, 8 <b>3</b> 7	11, 005, 824
8, <b>709</b>	10, 021	11, <b>26</b> 2	11, 568	12, 526	12, 058	18, 796	15, 988
<b>1, 105, 11</b> 8	1, 269, 554	1, 442, 482	1 <b>, 498, 259</b>	1, 634, 710	1, 567, 546	1, 777, 837	1, 967, 636
212, 452	282, 182	280, 607	262, 097	295, 424	808, 668	811, 423	<b>299, 976</b>
10, 346, 923	11, 885, 070	7, 514, 648	7, 853, 942	8, 884, 176	9, 184, 870	7, 879, 741	6, 540, 384
8, 965, 571	8, 629, 365	8, 741, 691	4, 200, 066	4, 006, 487	4, 006, 680	4, 436, 105	5, 05 <b>2,</b> 354
22, 092, 400	27, 099, 600	25, 148, 200	26, 980, 800	31, 457, 800	36, 785, 600	40, 560, 400	48, 502, 445
8, 220, 449	10, 721, 545	9, 903, 023	10, 647, 617	10, 148, 519	11, 468, 060	18, 938, 846	16, 871, 225
7, 620, 219	7, 976, 497	8, 417, 309	10, 874, 199	14, 935, 498	18, 974, 551	10, 560, 767	8, 240, 325
41, 379, 400	41, 318, 200	42, 739, 400	45, 491, 600	43, 186, 000	43, <b>632</b> , 600	47, 785, 600	42, 917, 310
4, 048, 947	8, 991, 047	4, 166, 291	4, 348, 097	4, 015, 944	4, 060, 913	4, 495, 935	4, 128, 823
90, 880	77, 460	77, 420	92, 849	88, 658	90, 850	118, 716	108, 616
3, 986, 222	2, 918, 932	2, 857, 172	8, 352, 989	8, 051, 137	8, 413, 205	4, 187, 521	3, 873, 708
8, 995, 151	10, 464, 074	11, <b>225, 6</b> 52	11, 701, 590	11, 983, 756	14, 449, 911	19, 075, 927	11, 760, 465
64, 820	62, 445	67, 870	70, 288	68, 474	100, 218	64, 639	68, 589
6, 027; 583	5, 916, 415	6, 452, 955	<b>7, 024, 04</b> 2	6, 560, 649	8, 860, 437	8, 952, 833	<b>4, 202, 18</b> 9
41, 646, 000	56, 916, 200	58, 478, 200	54, 164, 000	58, 801, <b>6</b> 00	60, 826, 200	68, 710, 400	76, 848, 125
3, 470, 912	4, 244, 263	4, 617, 139	4, 276, 494	<b>5, 158, 404</b>	5, 610, 788	6, 027, 776	5, 846, 100
14, 062, 400	14, 890, 200	16, 937, 800	17, 138, 000	15, 100, 800	19, 726, 200	19, <b>6</b> 04, 200	20, 682, 695
13, 029, 623	12, 265, 343	15, 153, 588	14, 279, 491	8, 098, 473	10, 661, 132	10, 272, 817	8, 447, 224
7, 519, 280	4, 970, 522	5, 385, 277	6, <b>053, 44</b> 5	5, 863, 340	4, 857, 424	5, 108, 517	5, 507, 255
85, 476, 600	97, 517, 200	99, 697, 400	118, 030, 000	108, 103, 600	121, 561, 000	188, 842, 000	135, 686, 880
4, 874, 022	5, 560, 716	5, 685, 008	6, 730, 296	6, 164, 227	6, 981, 788	7, 918, 404	5, 344, 368
60, 434, 669	64, 415, 670	65, 246, 162	72, 982, 178	79, 709, 000	81, 875, 548	79, 641, 087	77, 231, 709
214, 688, 936	229, 745, 463	234, 831, 018	251, 415, 810	255, 902, 174	259, 228, 318	258, 138, 447	281, 600, 578

DENMARK.

## Imports (merchandise only)

Countries.	1878.	1874.	1875.	1876.	1877.
	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.
Russia	•	2, 648, 376	1, 915, 932	2, 549, 216	8, 073, 692
Norway		2, 610, 588	2, 024, 740	1, 654, 096	1, 457, 652
Sweden		7, 037, 680	6, 938, 788	7, 206, 252	6, 537, 860
Germany		22, 294, 652	22, 462, 956	23, 601, 956	22, 749, 984
United Kingdom	••••••	15, 562, 296	17, 041, 584	15, 831, 296	14, 353, 812
Holland	••••	1, 860, 188	1, 959, 884	<b>2, 068, 69</b> 2	1, 404, 820
Belgium	•••••	756, 832	946, 576	<b>829,</b> 1 <b>9</b> 2	1, 261, 176
France	• • • • • • • • • • • • • • • • • • • •	1, 192, 064	1, 293, 368	<b>1, 167, 40</b> 8	899, 676
Iceland	•••••	765, 140	718, 952	742, 628	<b>966,</b> 140
United States	•••••	1, 200, 872	564, 676	1, 032, 472	2, 158, 470
Brazil		1, 694, 084	972, 038	552, 080	936, 892
All other countries	••••••	4, 875, 848	4, 189, 108	4, 110, 448	4, 602, 866
TOTAL IMPORTS		63, 497, 600	61, 023, 600	61, 345, 736	60, 401, 840

## Exports (merchandise-only)

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollare.	Dollars.	Dollars.	Dollare.	Dollars.
Russia	•••••	233, 696	340, 360	809, 541	246, 024
Norway		3, 965, 060	4, 760, 752	4, 333, 292	8, 205, 548
Sweden		6, 507, 576	6, 123, 264	6, 988, 904	7, 008, 200
Germany		15, 937, 424	18, 266, 000	14, 156, 028	14, 279, 040
United Kingdom		19, 051, 048	19, 462, 428	20, 390, 244	17, 068, 884
Holland	•••••	348, 936	280, 328	276, 308	153, 832
Belgium		310, 076	825, 084	288, 904	101, 036
France		33, 500	12, 060	47, 168	296, 944
Iceland	••••••	795, 424	612, 916	806, 412	747, 452
United States		102, 108	35, 644	4, 020	4, 288
Brazil		15, 276	4, 288		268
All other countries	••••	913, 176	899, 676	817, 935	918, 168
TOTAL EXPORTS		48, 218, 200	46, 122, 800	48, 418, 756	44, 029, 184

DENMARK.

from the principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollare.	Dollare.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
1, 935, 764	2, 849, 876	2, 758, 524	1, 882, 968	2, 490, 792	8, 078, 764	4, 425, 752	
1, 395, 744	1, 401, 908	1, <b>63</b> 8, <b>5</b> 52	1, 726, 992	2, 005, 980	1, 975, 160	2, 065, 308	
5, 448, 976	4, 975, 688	7, 440, 216	6, 659, 264	8, 528, 564	11, 150, 408	10, 503, 992	
20, 277, 148	19, 499, 680	21, 554, 704	24, 425, 788	26, 119, 548	27, 527, 388	26, 415, 956	
11, 072, 688	12, 645, 044	14, 220, 348	15, 803, 960	15, 706, 676	17, 552, 660	16, 777, 336	
1, 655, 704	1, 523, 044	1, 651, 952	1, 891, 008	1, 630, 512	1, 719, 672	1, 784, 864	
902, 892	829, 728	756, 832	1, 106, 036	1, 865, 996	1, 106, 036	1, 205, 196	
850, 096	840, 180	1, 144, 360	1, 330, 620	1, 084, 212	1, 390, 652	1, 380, 200	
929, 424	1, 116, 220	834, 016	951, 400	1, 084, 060	1, 058, 064	754, 420	
2, 182, 824	2, 902, 440	4, 788, 356	5, 076, 724	8, 198, 756	4, 587, 892	4, 152, 124	
2, 412	72, 092	82, 544	80, 552				  ••••••
4, 874, 028	4, 676, 600	4, 072, 798	4, 828, 288	4, 690, 704	6, 171, 804	4, 070, 452	
51, 027, 200	53, 332, 000	60, 948, 200	65, 713, 600	67, 850, 900	77, 818, 000	78, 485, 600	

## to principal countries.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.	Dollars.	Dollars.
208, 144	184, 920	287, 028	865, 016	624, 976	416, 204	690, 636	•••••
2, 836, 512	2, 367, 780	4, 226, 860	4, 711, 172	8, 265, 812	8, 030, 276	2, 791, 488	•••••
<b>5, 658, 728</b>	5, 372, 864	7, 160, 424	7, 494, 084	7, 145, 684	8, 107, 000	7, 114, 000	•••••
12, 884, 100	14, 479, 236	17, 829, 504	16, 571, 512	16, 096, 848	15, 904, 192	15, 478, 840	•••••
16, 919, 108	17, 040, 780	20, 866, 892	17, 087, 680	19, 662, 856	22, 008, 068	18, 844, 600	
821, 600	<b>254, 6</b> 00	422, 100	<b>822,</b> 186	198, 764	818, 292	142, 308	•••••
224, 852	354, 296	91, 388	147, 400	114, 168	127, 082	129, 980	••••••
486, 956	599, 516	266, 124	18 <b>9, 20</b> 8	195, 104	417, 276	362, 336	•••••
767, 820	868, 264	853, 992	85 <del>9</del> , 208	1, 009, 556	1, 029, 656	888, 420	
4, 556	186, 528	883, 892	431, 892	978, 200	1, 016, 792	962, 120	
268	8, 752	1, 608	<b>6, 96</b> 8	1, 072	1, 072	- • • • • • • • • • •	
754, 956	658, 264	<b>850, 488</b>	991, 724	1, 097, 460	1, 207, 840	906, 912	
41, 057, 600	42, 870, 800	<b>52, 688, 900</b>	49, 178, 000	50, 884, 000	58, 578, 200	47, 811, 200	

FRANCE.

## Statement showing the

Whence imported.	1873.	1874.	1875.	1876.	1877.
Continent of Europe.					
he United Kingdom:	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.
Entered for consumption	115, 008, 700	114, 198, 100	120, 489, 900		110, 839, 90
Transit and re-export trade Total	146, 139, 600	24,954,900 139,153,000	23, 951, 300 144, 441, 200	80, 609, 800 156, 040, 500	. 28, 120, 10 138, 960, 00
elgium:	140, 150, 000	100, 100, 000	123, 321, 201	150, 040, 500	100, 900, 00
Entered for consumption	91, 597, 800	78, 994, 900	84, 765, 600	77, 875 500	
Transit and re-export trade	18, 085, 400	13, 162, 600	10, 827, 300	11, 155, 400	10, 769, 40
Total	104, 683, 200	92, 157, 500	95, 592, 900	89, 030, 900	89, 687, 10
Entered for consumption	60, 042, 300	60, 891, 500	66, 357, 000	75, 077, 000	71, 950, 40
Transit and re-export trade	20, 593, 100	21, 886, 200	20, 570, 200	17, 466, 500	16, 733, 10
Total	80, 635, 400	82, 777, 700	86, 927, 200	92, 543, 500	88, 683, 50
Entered for consumption	66, 739, 400	55, 757, 700	62, 242, 500	79, 172, 200	65, 967, 40
Transit and re-export trade		13, 510, 000	17, 022, 600	18, 292, 800	20, 226, 40
Total	84, 283, 100	69, 267, 700	79, 265, 100	97, 465, 000	86, 193, 80
witzerland:	17 717 400	19 588 800	19 094 100	1 21 940 900	10 547 90
Entered for consumption Transit and re-export trade		18, 566, 600 49, 755, 400	18, 084, 100 45, 470, 800	21, 249, 300 43, 811, 000	18, 547, 30 46, 030, 50
Total		68, 322, 000	63, 554, 900	65, 060, 300	64, 577, 80
pain:				1	1
Entered for consumption	27, 213, 000 7, 372, 630	25, 070, 700 5, 577, 700	18, 161, 300	18, 547, 300	21, 075, 60
Transit and re-export trade Total		30, 648, 400	4, 651, 300 22, 812, 600	5, 365, 400 23, 912, 700	8, 897, 30 29, 972, 90
ussia:			} '		<b>20, 012, 0</b> 0
Entered for consumption	26, 402, 400	35, 357, 600	37, 924, 500	34, 045, 200	39, 024, 60
Transit and re-export trade Total	9, 920, 200 36, 322, 600	6, 330, 400 41, 688, 000	8, 106, 000	3, 917, 900	1, 254, 50
Total	50, 522, 500	21, 000, 000	46, 030, 500	37, 963, 100	40, 279, 10
Entered for consumption		32, 964, 400	23, 642, 500	86, 226, 100	80, 426, 80
Transit and re-export trade		2, 933, 600	4, 033, 700	5, 191, 700	5, 085, 20
Totalustria:	45, 142, 700	85, 898, 000	27, 676, 200	41, 417, 800	35, 512, 00
Entered for consumption	10, 518, 500	12, 776, 700	11, 174, 700	13, 301, 200	10, 383, 40
Transit and re-export trade	212, 300	38, 500	656, 200	459, 700	810, 60
Total	10, 780, 800	12, 815, 200	11, 830, 900	13, 760, 900	11, 194, 00
weden:	7 869 100	7 252 200	0 000 100	11 100 100	10 550 50
Entered for consumption Transit and re-export trade	7, 662, 100 250, 900	7, 353, 300	8, 820, 100 250, 900	11, 136, 100 270, 200	10, 750, 10 193, 60
Total	7, 913, 000	7, 527, 000	9, 071, 000	11, 406, 300	10, 943, 10
[olland:	F 500 000	F 000 000			
Entered for consumption  Transit and re-export trade	7, 720, 000 1, 119, 400	5, 809, 300 675, 500	6, 407, 600 887, 800	7, 642, 800	6, 600, 60
Total	8, 839, 400	6, 484, 800	7, 295, 400	752, 700 8, 895, 500	738, 40 7, 334, 00
rece:					1,002,00
Entered for consumption	810, 600	1, 003, 600	1, 119, 400	887, 800	887, 80
Transit and re-export trade Total	424, 600 1, 235, 200	135, 100	250, 900 1, 370, 300	115, 800 1, 003, <b>6</b> 00	289, 50 1, 177, 30
orway:	2, 255, 256	1, 200, 100	2,010,000	1, 000, 000	1, 111, 30
Entered for consumption	6, 421, 500	5, 944, 400	4, 168, 800	6, 118, 100	5, 191, 00
Transit and re-export trade Total	44, 000 6, 465, 500	19, 300 5, 963, 700	77, 200 4, 246, 000	38,600	20, 70
ortugal:	0, 400, 500	3, 800, 100	4, 210, 000	6, 156, 700	5, 211, 70
Entered for consumption	2, 914, 300	2, 353, 200	1, 544, 000	2, 296, 700	2, 219, 50
Transit and re-export trade		503, 200	559, 700	636, 900	482, 50
Totaloumania:	3, 512, 600	2, 856, 400	2, 103, 700	2, 933, 600	2, 702, 00
Entered for consumption					1
Transit and re-export trade					
Total	•••			·	
Entered for consumption	57, 900	96, 500	57, 900	77, 200	212, 30
Transit and re-export trade			1 0,,000	19, 300	96, 50
Total	57, 900	96, 500	57, 900	96, 500	308, 80
OTAL FROM EUROPE: Entered for consumption	474 200 BAA	457 120 EAA	ARA ORO OCO	500 000 000	
Transit and re-export trade	162, 434, 200	457, 138, 500 139, 656, 100	137 315 900	138, 103, 700	472, 994, 40 139, 742, 70
Total	636, 822, 800	596, 794, 600	602, 275, 800		612, 737, 10
Continent of Africa.					
lgeria:	00 670 600	01 700 700	00 070 000	00 001 001	00 505 5
Entered for consumption Transit and re export trade	28, 679, 800 386, 000	21, 789, 700 482, 509	20, 959, 800 791, 300	23, 661, 800	<b>23, 565, 30</b>
Total	29, 065, 800	22, 272, 200	21, 751, 100	714, 100 24, 875, 900	714, 10 24, 279, 40
gypt:				,,	47, 410, 4V
Entered for consumption	8, 935, 900	10, 209, 700	7, 044, 500	12, 561, 800	10, 306, 20
Transit and re-export trade	1, 851, 000	1, 177, 300	1, 196, 600	2, 103, 700	1, 408, 90

FRANCE.

imports by countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<i>Dollars</i> 111, <b>997, 900</b> 23, <b>8</b> 58, 000 185, 850, <b>9</b> 00	Dellars. 115, 607, 000 28, 236, 000 143, 848, 000	Dollars. 127, 055, 500 27, 093, 600 154, 149, 100	Dollars. 135, 601, 800 28, 660, 500 164, 262, 800	<i>Dollars</i> . 139, 326, 700 29, 953, 600 169, 280, 300	Dollars. 184, 468, 100 25, 840, 900 159, 804, 000	<i>Dollars.</i> 118, 945, 900 22, 542, 709 141, 488, 600	<b>Dollars.</b> 108, 660, 300 18, 701, 700 122, 362, 000
79, 328, 000	80, 095, 000	88, 278, 200	91, 057, 400	98, 101, 900	94, 898, 100	89, 859, 000	78, 068, 300
10, 981, 700	15, 073, 800	19, 724, 600	20, 250, 700	24, 607, 500	21, 075, 600	11, 039, 600	17, 312, 300
90, 304, 700	95, 168, 300	108, <b>002</b> , 800	111, 308, 100	122, 709, 400	115, 973, 700	100, 398, 600	95, 380, 600
80, 770, 500	79, 709, 000	84, 572, 600	87, 757, 100	91, 964, 500	89, 127, 400	80, 461, 700	72, 201, 800
17, 350, 700	17, 466, 500	21, 384, 400	20, 892, 600	26, 402, 400	23, 449, 500	16, 926, 100	18, 064, 800
98, 121, 200	97, 175, 500	105, 957, 000	108, 649, 700	118, 866, 900	112, 576, 900	97, 887, 800	90, 266, 100
67, 260, 500	69, 055, 400	76, 871, 900	83, 549, 700	69, 750, 200	82, 468, 900	71, 159, 100	50, 701, 100
23, 526, 700	21, 866, 900	26, 865, 600	28, 544, 700	21, 249, 300	14, 668, 000	13, 217, 000	14, 359, 200
90, 787, 200	90, 922, 300	103, 737, 500	112, 094, 400	90, 999, 500	97, 136, 900	84, 876, 100	65, 060, 300
21, 807, 200	19, 917, 600	22, 021, 300	24, 221, 500	23, 237, 200	23, 777, 600	22, 561, 700	22, 488, 00
43, 850, 300	46, 956, 900	57, 533, 300	49, 890, 500	48, 250, 000	47, 053, 400	44, 351, 400	85, 694, 50
<b>65</b> , 157, 500	66, 874, 500	79, 554, 600	74, 112, 000	71, 487, 200	70, 831, 000	66, 913, 100	58, 882, 50
28, 737, 700	35, 280, 400	66, 187, 600	71, 545, 100	70, 869, 600	71, 757, 400	57, 591, 200	69, 660, 900
4, 620, 300	4, 342, 500	4, 751, 300	6, 060, 200	7, 276, 100	6, 291, 800	11, 707, 900	7, 346, 100
<b>33, 858, 0</b> 00	89, 622, 900	70, 888, 900	77, 605, 300	78, 145, 700	78, 049, 200	69, 299, 100	77, 007, 000
67, 472, 800	66, 199, 000	60, 621, 800	43, 946, 100	52, 110, 000	40, 105, 400	42, 247, 700	81, 516, 90
9, 881, 600	6, 639, 200	5, 172, 400	4, 641, 800	4, 842, 500	7, 160, 800	945, 700	8, 551, 20
77, 854, 400	72, 838, 200	65, 798, 700	48, 587, 400	56, 452, 500	47, 265, 700	48, 193, 400	85, 068, 10
24, 665, 400	29, 992, 200	25, 765, 500	26, 228, 700	22, 426, 600	25, 456, 700	28, 898, 400	25, 726, 900
2, 682, 700	4, 033, 700	2, 586, 200	4, 284, 600	4, 825, 000	6, 504, 100	2, 605, 500	8, 184, 500
27, 348, 100	34, 025, 900	28, 851, 700	80, 513, 800	27, 251, 600	81, 960, 800	26, 498, 900	28, 911, 400
11, 773, 000	17, 466, 500	28, 951, 300	20, 805, 400	24, 878, 800	27, 946, 400	21, 865, 100	21, 326, 500
543, 900	1, 142, 200	405, 300	772, 000	483, 100	907, 100	463, 200	752, 700
12, 816, 900	18, 608, 700	24, 356, 600	21, 577, 400	24, 858, 400	28, 838, 500	21, 828, 800	22, 079, 200
14, 629, 400	16, 462, 900	16, 858, 900	11, 387, 000	18, 780, 200	13, 317, 000	11, 406, 800	9, 244, 700
115, 800	178, 700	105, 800	173, 700	193, 000	154, 400	57, 900	178, 700
14, 745, 200	16, 636, 600	16, 964, 700	11, 560, 700	18, 973, 200	18, 471, 400	11, 464, 200	9, 418, 400
5, 847, 400	8, 168, 900	7, 898, 700	8, 102, 500	8, 163, 900	8, 549, 900	7, 276, 100	6, 967, 806
849, 700	945, 700	926, 400	949, 200	772, 000	1, 042, 200	926, 400	945, 700
6, 697, 100	9, 109, 600	8, 820, 100	9, 051, 700	8, 935, 900	9, 592, 100	8, 202, 500	7, 913, 000
1, 100, 100	2, 856, 400	5, 230, 800	8, 744, 200	4, 053, 000	4, 747, 800	4, 863, 600	10, 441, 800
173, 700	540, 400	617, 600	945, 700	1, 812, 400	1, 042, 200	1, 910, 700	1, 177, 300
1, 273, 800	8, <b>396</b> , 800	5, 847, 900	4, 689, 900	5, 865, 400	5, 790, 000	6, 774, 800	11, 618, 600
5, 461, 900	5, 158, 100	6, 785, 700	5, <b>92</b> 5, 100	7, 411, 200	4, 805, 700	5, 172, 400	8, 975, 800
77, 200	57, 900	88, 600	19, 300	57, 900	57, 900	38, 600	38, 600
5, 539, 100	5, 211, 000	6, 774, 300	5, <b>944</b> , 490	7, 469, 100	4, 863, 600	5, 211, 000	4, 014, 400
1, 505, 400	1, 381, 700	2, 316, 000	4, 803, 900	3, 435, 400	4, 670, 600	4, 265, 800	9, 900, 900
231, 600	270, 200	847, 400	270, 200	347, 400	347, 400	540, 400	752, 700
1, 737, 000	1, 601, 900	2, 663, 400	4, 574, 100	8, 782, 800	5, 018, 000	4, 805, 700	10, 653, 600
		8, 512, 600 810, 600 4, 823, 200	8, 723, 600 424, 600 9, 148, 200	6, 812, 900 559, 700 7, 372, 600	5, 600, 500 772, 000 6, 372, 500	2, 885, 800 77, 200 2, 412, 500	2, 219, 50 945, 70 8, 165, 20
617, 600 38, 600 656, 200	945, 700 945, 700	463, 200 463, 200	173, 700 173, 700	31, 600 231, 600	463, 200 19, 800 482, 500	482, 500 482, 500	289, 50 19, 80 808, 80
22, 469, 800 38, 277, 500 60, 747, 800	548, 285, 800 147, 745, 100 695, 980, 900	618, 285, 600 168, 863, 100 786, 648, 700	627, 072, 800 166, 779, 800 793, 852, 600	636, 048, 200 170, 633, 900	151, 886, 100	568, 886, 800 127, 850, 800 690, 736, 600	518, 889, 20 123, 220, 00 641, 609, 20
28, 198, 600	28, 608, 500	24, 491, 700	17, 775, 800	18, 528, 000	18, 431, 500	19, 686, 000	28, 854, 80
443, 900	289, 900	866, 700	250, 900	828, 100	403, 300	886, 000	866, 70
23, 642, 500	28, 898, 400	24, 858, 400	18, 026, 200	18, 856, 100	18, 886, 800	20, 072, 000	24, 221, 50
6, 253, 200 540, 400	9, 225, 400 1, 061, 500	10, 750, 100 1, 438, 900 12, 189, 000	7, <b>662</b> , 100 1, 061, 500 8, 723, 600	7, 196, 900 1, 833, 500	7, 141, 000 783, 400 7, 874, 400	4, 979, 400 1, 871, 100	5, 886, 500 810, 600 6, 697, 100

FRANCE-Continued.

## Statement showing the imports

Whence imported.	1878.	1874.	1875.	1876.	1877.
Continent of Africa—Continued.					
West Africa:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Entered for consumption	8, 821, 400	5, 442, 600	6, 272 500	6, 002, 300	6, 677, 800
Transit and re-export trade	. 289, 500	154, 400	178, 700	405, 300	636, 900
Total	4, 110, 900	5, 597, 000	6, 446, 200	6, 407, 600	7, 814, 700
Tripoli, Tunis, and Morocco:	4 620 000	4 708 400	4 767 100	0 001 400	4 961 800
Entered for consumption	4, 632, 000 289, 500	4, 786, 400 521, 100	4, 767, 100 405, 800	8, 821, 400 269, 200	4, 361, 800 135, 100
Total	4, 921, 500	5, 307, 500	5, 172, 400	4, 091, 600	4, 496, 900
Senegal:	2, 621, 666	0,00.,000	9, 2, 2, 300	,2, 002, 000	2, 200, 000
Entered for consumption	2, 065, 100	2, 238, 800	1, 852, 800	1, 775, 600	2, 084, 600
Transit and re-export trade	. 38, 600	19, 300	19, 300	19, 300	76, 800
Total	. 2, 103, 700	2, 258, 100	1, 872, 100	1, 794, 900	2, 161, 400
Réunion: Entered for consumption	8, 686, 300	4, 496, 900	3, 860, 000	4, 458, 300	4, 503, 900
Transit and re-export trade	849, 200	135, 100	77, 200	308, 800	521, 100
Total	4, 535, 500	4, 632, 000	8, 937, 200	4, 767, 100	4, 825, 000
British Africa:	-,,	, , , , , , ,	}	<b>., ,</b>	, c_c, ccc
Entered for consumption	3, 744, 200	1, 312, 400	1, 022, 900	810, 600	1, 544, 000
Transit and re-export trade		212, 800	96, 500	308, 800	115, 800
Total	8, 802, 100	1, 524, 700	1, 119, 400	1, 119, 400	1, 659, 800
AU other places in Africa: Entered for consumption	1, 254, 500	1, 100, 100	1, 686, 100	1, 158, 000	1, 563, 300
Transit and re-export trade	38, 600	135, 100	282, 500	19, 300	212, 300
Total	1, 293, 100	1, 235, 200	1, 968, 600	1, 177, 300	1, 775, 600
COTAL FROM AFRICA:					_, ,
Entered for consumption	56, 819, 200	51, 376, 600	47, 485, 700	54, 252, 300	54, 406, 900
Transit and re-export trade	8, 800, 800	2, 837, 100	8, 042, 400	4, 149, 500	3, 821, 000
Total	60, 119, 500	54, 213, 700	50, 508, 100	58, 401, 800	58, 227, 900
Continent of America.					
The United States:					
Entered for consumption	38, 503, 500	46, 609, 500	36, 708, 600	51, 048, 500	49, 755, 400
Transit and re-export trade	2, 843, 100	1. 621, 200	1, 042, 200	2, 875, 700	4, 342, 500 54, 097, 900
Total	41, 346, 600	48, 230, 700	87, 750, 800	53, 924, 200	54, 097, 900
The Argentine Republic: Entered for consumption	20, 284, 300	18, 817, 500	17, 543, 700	21, 249, 300	21, 946, 000
Transit and re-export trade	675, 500	1, 737, 000	810, 600	1, 235, 200	731, 500
Total	20, 959, 800	20, 554, 500	18, 354, 300	22, 484, 500	22, 677, 500
Brazil:					
Entered for consumption,	10, 595, 700	8, 897, 300	9, 746, 500	10, 672, 900	10, 846, 600
Transit and re-export trade	7, 874, 400 18, 474, 100	7, 276, 100	10, 499, 200	7, 970, 900	7, 044, 500 17, 891, 100
Peru:	10, 474, 100	16, 173, 400	20, 245, 700	18, 643, 800	17, 051, 100
Entered for consumption	9, 900, 900	10, 479, 900	9, 934, 600	11, 444, 900	11, 869, 500
Transit and re-export trade	115, 800	193, 000	217, 200	38, 600	96, 500
_ Total	10, 016, 700	10, 672, 900	10, 151, 800	11, 488, 500	11, 966, 000
Uruguay:	9 000 400	Z 100 000	5 660 100	# 20# #AA	# 001 000
Entered for consumption		7, 160, 300 250, 900	7, 662, 100 424, 600	7, 507, 700 173, 700	6, 291, 800 135, 100
Transit and re-export trade Total	8, 221, 800	7, 411, 200	8, 086, 700	7, 681, 400	6, 426, 900
Hayti:	0, 222, 000	,, 221, 200	1	1, 002, 100	0, 120, 000
Entered for consumption	6, 890, 100	6, 214, 600	7, 855, 100	7, 970, 900	5, 944, 400
Transit and re-export trade	1, 331, 700	559, 700	2, 817, 800	1, 544, 000	1, 447, 500
Total	. 8, 221, 800	6, 774, 300	10, 672, 900	9, 514, 900	7, 391, 900
Saint Piere, Miquelon, and Grande	İ				
Péche: Entered for consumption	5, 558, 400	4, 902, 200	4, 709, 200	5, 056, 600	5, 268, 900
Transit and re-export trade	0,000,400	3, 802, 200	4, 100, 200	3, 030, 000	57, 900
Total	5, 558, 400	4, 902, 200	4, 709, 200	5, 056, 600	5, 326, 800
Chili:	1	-,,	3, 333, 233	<b>-,</b> ,	
Entered for consumption	2, 702, 000	4, 554, 800	<b>2,</b> 702, 000	5, 191, 700	2, 914, 800
Transit and re-export trade		579, 000	115, 800	135, 100	57, 900
Total	<b>8, 203, 800</b>	5, 133, 800	2, 817, 800	<b>5, 326,</b> 800	2, 972, 200
United States of Colombia:  Entered for consumption	9 984 400	1 901 400	1 010 700	1, 293, 100	1, 524, 700
Entered for consumption	<b>2, 354, 6</b> 00 <b>783, 4</b> 00	1, 891, 400 443, 900	1, 910, 700 752, 700	1, 293, 100 1, 138, 700	1, 158, 000
Total	8, 088, 000	2, 335, 300	2, 663, 400	2, 431, 800	2, 682, 700
Martinique: '	7, 550, 500	_, 555, 500	_, _, _, ,,	_,,	_,,
Entered for consumption	3, 821, 400	4, 149, 500	4, 805, 700	8, 744, 200	8, 860. 000
Transit and re-export trade	328, 100	405, 300	579,000	212, 300	521, 000
Total	4, 149, 500	4, 554, 800	5, 884, 700	8, 956, 500	4, 851, 000
Venezuela: Entered for consumption	9 190 000	1 010 700	2, 470, 400	9 997 100	2, 431, 800
Entered for consumption	2, 180, 900 714, 100	1, 910, 700 849, 200	2, 470, 400 1, 582, 600	2, 837, 100 1, 158, 000	115, 800
		1 030, 400	, <u> </u>	-1	2, 547, 600

FRANCE-Continued.

by countries—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 6, 600, 600 636, 900 7, 237, 500	Dollars. 5, 884, 700 219, 300 5, 597, 000	Dollars. 5, 539, 100 96, 500 5, 635, 600	<b>Dollars.</b> 5, 770, 700 443, 900 6, 214, 600	<b>Dollars.</b> 5, 519, 800 559, 700 6, 079, 500	Dollars. 7, 198, 900 1, 403, 300 8, 604, 200	<i>Dollars</i> . 5, 732, 100 463, 240 6, 193, 300	<b>Dollars.</b> 4, 670, 60 838, 00 5, 056, 64
4, 998, 700	6, 562, 000	5, 211, 000	5, 268, 900	4, 284, 600	7, 092, 400	3, 435, 400	4, 400, 40
289, 50	540, 400	270, 260	598, 300	96, 500	1, 794, 900	508, 300	752, 70
5, 288, 200	7, 102, 400	5, 481, 200	5, 867, 200	4, 381, 100	8, 887, 300	4, 033, 700	5, 158, 10
2, 277, 400 19, 300 2, 296, 700	2, 451, 100 19, 300 2, 470, 400	8, 821, 400 19, 800 3, 840, 700	8, 667, 000 88, 600 8, 705, 600	4, 442, 500 4, 442, 500	3, 937, 200 19, 800 8, 956, 500	3, 531, 900 88, 600 8, 570, 500	5, 519, 80 19, 30 5, 539, 10
4, 226, 700	8, 454, 700	3, 030, 100	8, 08R, 000	3, 068, 700	2, 985, 600	1, 949, 300	8, 145, 90
386, 000	656, 200	463, 200	289, 500	501, 800	212, 300	675, 500	231, 60
4, 612, 700	4, 110, 900	8, 498, 800	8, 877, 500	3, 570, 500	8, 147, 900	2, 624, 800	8, 377, 50
1, 408, 900	1, 870, 300	1, 022, 900	1, 100, 100	810, <b>6</b> 00	1, 447, 500	945, 700	1, 486, 00
193, 000	926, 400	866, 700	521, 100	508, <b>8</b> 00	530, 400	636, 900	617, 60
1, 601, 900	2, 266, 700	1, 889, 600	1, 621, 200	<b>1,</b> 819, 400	1, 977, 900	1, 582, 600	2, 103, 70
1, 293, 100	1, 833, 500	2, 103, 700	2, 296, 700	1, 814, 200	1, 466, 800	849, 200	2, 084, 40
424, 600	482, 500	20, 800	193, ( 00	366, 700	250, 900	701, 800	19, 80
1, 717, 700	2, 316, 000	2, 124, 000	2, 489, 700	2, 180, 900	1, 717, 700	1, 640, 500	2, 103, 70
60, 257, 200	53, 885, 200	85, <b>97</b> 0, 000	46, 628, 800	45, 667, 300	49, 650, 900	41, 109, 000	51, 048, 50
2, 933, 600	4, 188, 500	8, 041, 800	8, 896, 800	4, 195, 100	5, 351, 800	5, 450, 900	8, 203, 60
3, 190, 800	58, 073, 700	59, 011, 800	50, 025, 600	49, 862, 400	55, 002, 700	46, 569, 900	64, 252, 80
4, 087, 500	188, 268, 700	141, 083, 000	97, 735, 200	76, 952, 600	68, 206, 200	53, 943, 500	51, 766, 70
6, 416, 200	6, 830, 400	7, 070, 900	7, 025, 200	8, 817, 900	4, 940, 800	1, 940, 300	5, 099, 70
0, 583, 700	144, 599, 100	149, 053, 900	104, 760, 400	80, 770, 500	73, 147, 000	55, 892, 800	56, 866, 40
6, 844, 500	25, 977, 800	27, 772, 700	24, 839, 100	81, 629, 200	87, 863, 800	87, 828, 000	37, 943, 80
675, 500	1, 003, 600	868, 500	984, 300	945, 700	656, 200	424, 60	443, 90
7, 020, 000	26, 981, 400	28, 641, 200	25, 823, 400	82, 574, 900	88, 020, 000	88, 252, 600	38, 387, 70
0, <b>962</b> , 400	10, 615, 000	10, 118, 200	10, 928, 800	9, 197, 500	11, 637, 900	9, 476, 800	9, 068, 60
8, 453, 400	9, 109, 600	5, 654, 900	11, 008, 200	9, 978, 100	12, 583, 600	10, ⊱08, 000	10 056, 00
<b>9</b> , 415, 800	19, 724, 600	15, 768, 100	23, 932, 000	19, 145, 600	24, 221, 500	20, 284, 800	19, 724, 60
7, 565, 600 77, 200 7, 642, 800	9, 939, 500 9, 939, 500	3, 763, 500 96, 500 3, 860, 000	4, 476, 600 4, 476, 600	6, 279, 500 321, 100 6, 600, 600	5, 211, 000 90, 500 5, 307, 500	6, 986, 600 212, 8: 0 7, 198, 900	8, 975, 86 173, 76 4, 149, 56
5, 944, 400	6, 238, 900	6, 504, 100	6, 562, 000	6, 639, 200	5, 751, 409	6, 137, 400	7, 838, 30
868, 700	77, 200	19, 800	57, 900	212, 800	77, 200	115, 800	157, 40
6, 311, 100	6, 811, 100	6, 523, 400	6, 619, 900	6, 851, 500	5, 828, 600	6, 253, 200	7, 510, 70
5, 790, 000	6, 828, 300	6, 523, 400	6, 446, 200	6, 079, 500	6, 060, 200	5, 867, 200	5, 770, 70
1, 698, 400	1, 679, 100	1, 196, 600	8, 860, 000	1, 003, 600	8, 126, 600	270, 200	2, 893, 00
7, 428, 400	8, 067, 400	7, 720, 000	10, 806, 200	7, 083, 100	9, 186, 800	6, 137, 400	8, 665, 70
5, 133, 800 57, 900 5, 191, 700	4, 458, 800 19, 800 4, 477, 600	4, 226, 700 57, 900 4, 284, 600	4, 458, 300 96, 500 4, 554, 800	4, 940, 800 4, 940, 800	5, 442, 600 ⊌6, 500 5, 639, 100	5, 674, 200 115, 8 0 5, 790, 000	6, 369, 00 154, 40 6, 523, 40
2, 914, 300	4, 284, 600	6, 187, 400	5, 307, 500	4, 168, 800	5, 268, 900	4, 458, 300	2, 200, 20
115, 800	185, 100	77, 200	173, 700	115, 800	173, 700	96, 500	135, 10
3, 030, 100	4, 419, 700	6, 214, 600	5, 481, 200	4, 284, 600	5, 442, 600	4, 554, 800	2, 335, 30
1, 679, 100	2, 682, 700	2, 759, 900	<b>2, 628, 400 2, 296, 700 5, 925, 100</b>	8, 628, 400	2, 528, 800	2, 335, 800	2, 277, 40
907, 100	2, 200, 200	2, 875, 700		2, 258, 100	1, 650, 900	1, 801, 400	1, 115, 90
2, 586, 200	4, 882, 900	5, 635, 600		5, 886, 500	4, 188, 100	4, 226, 700	8, 498, 80
8, 512, 600	4, 709, 200	4, 110, 900	4, 038, 700	5, 183, 800	4, 168, 800	8, 724, 900	5, 230, 30
405, 800	115, 500	617, 600	521, 100	636, 900	270, 200	482, 500	808, 80
3, 917, 900	4, 825, 000	4, 728, 500	4, 554, 800	5, 770, 700	4, 439, 000	4, 207, 400	5, 589, 10
8, 049, 400	2, 856, 400	2, 759, 900	2, 856, 400	2, 856, 400	8, 647, 700	8, 068, 700	3, 088, 00
1, 100, 100	1, 138, 700	1, 017, 600	714, 100	1, 293, 100	1, 408, 9: 0	570, 600	405 30
4, 149, 500	8, 995, 100	8, 777, 500	8, 570, 500	4, 149, 500	8, 036, 600	8, 647, 700	8, 493, 30

FRANCE-Continued.

## Statement showing the

		<del></del>	·	·	1	
Whence imported.	1873.	1874.	1875.	1876.	1877.	
Continent of America—Continued.			:			
Guadeloupe:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	
Entered for consumption	. 4, 053, 000	2, 952, 900	3, 435, 400	2, 952, 900	4, 014, 400	
Transit and re-export trade	212, 300	57, 900	829, 900	38, 600	154, 400	
Total	4, 265, 300	3, 010, 800	4, 265, 300	2, 991, 500	4, 168, 800	
Spanish America:	4 554 900	4, 458, 800	7, 256, 800	4 944 900	9 693 700	
Entered for consumption	4, 554, 800 77, 200	38, 600	887, 800	4, 844, 300 328, 100	2, 682, 700 521, 100	
Total	4, 632, 000	4, 496, 900	8, 144, 600	5, 172, 400	3, 203, 800	
British America:	2, 302, 333	1, 100, 000	0, 222, 000	0, 212, 200	1 0, 200, 000	
Entered for consumption	. 231, 600	617, 600	405, 300	926, 400	1,737,000	
Transit and re-export trade	463, 200	829, 900	347, 400	231, 600	88, 600	
Total	. 694, 800	1, 447, 500	752, 700	1, 158, 000	1, 775, 600	
Mexico:	045 700	1 202 100	1, 756, 300	1 850 000	1 100 700	
Entered for consumption	945, 700 231, 600	1, 293, 100 173, 700	617, 600	1, 659, 800 405, 300	1, 188, 700 115, 800	
Total		1, 466, 800	2, 373, 900	2, 065, 100	1, 254, 500	
Justemala :		2, 200, 000		_,,	-,,	
Entered for consumption	. 96, 500	231, 600	115, 800	270, 200	231, 600	
Transit and re-export trade		115, 800	57, 900	135, 100	19, 300	
Total	270, 200	347, 400	173, 700	405, 300	250, 900	
All other places in America:	173, 700	289, 500	386, 000	559, 700	656, 200	
Entered for consumption		385, 500	386, 000	714, 100	<b>38, 6</b> 00	
Total	270, 200	675, 500	772, 000	1, 273, 800	694, 600	
TOTAL FROM AMERICA:		313,000				
Entered for consumption	. 120, 914, 500	125, 430, 700		139, 230, 200	133, 114, 000	
Transit and re-export trade		15, 516, 700	21, 968, 800	18, 335, 000		
Total	. 187, 441, 800	140, 947, 400	141, 372, 500	157, 565, 200	149, 710, 000	
Continent of Asia.				·	ł	
British Indis:				<b>!</b>		
Entered for consumption	14, 861, 000	20, 187, 800	24, 993, 500	26, 904, 200	28, 853, 500	
Transit and re-export trade		2, 238, 800	8, 860, 000	3, 010, 800	2, 914, 90	
Total	. 17, 041, 900	22, 426, 600	28, 853, 500	29, 915, 000	31, 767, 800	
China:	10 074 000	-4 551 500	35 000 000	07 174 400	<b>=</b> 000 000	
Entered for consumption	10, 074, 600	14, 571, 560 1, 775, 600	17, 099, 800	27, 174, 400	7, 063, 800	
Transit and re-export trade Total	3, 049, 400 13, 124, 000	16, 847, 100	675, 500 17, 775, 800	3, 203, 800 30, 378, 200	6, 774, 200 13, 838, 100	
Sapan:	20, 223, 000	20,011,200	21, 170, 000	00,010,200	10,000,10	
Entered for consumption	3, 917, 900	3, 840, 700	3, 068, 700	7, 063, 800	2, 624, 90	
Transit and re-export trade		12, 911, 700	11, 502, 800	11, 251, 900	6, 407, 00	
Total	12, 371, 800	16, 752, 400	14, 571, 500	18, 315, 700	9, 032, 40	
French India:	2, 161, 600	598, 300	1, 466, 800	772, 000	270, 20	
Eutered for consumption		738, 400	38, 600	193, 000	808, 80	
Total	2, 798, 500	1, 331, 700	1, 505, 400	965, 000	579, 00	
Dutch India:						
Entered for consumption	1, 177, 300	1, 408, 900	1,717,700	2, 451, 100	6, 928, 70	
Transit and re-export trade	636, 900	868, 500	77, 200	808, 800	482, 50	
Total	. 1, 814, 200	2, 277, 400	1, 794, 900	2, 759, 900	7, 411, 20	
Cochiu China and Tonquin:  Entered for consumption		1	366, 700	424, 600	405, 30	
Transit and re-export trade			59, 900	38, 600	231, 60	
Total			426, 600	463, 200	636, 90	
The Philippines:				•		
Entered for consumption		193, 000	250, 900	386, 000	463, 20	
Transit and re-export trade	421,600	173, 700	463, 200	57, 900	135, 10	
Total	443, 900	366, 700	714, 100	443, 900	598, 30	
All other places in Asia: Entered for consumption	714, 100	1, 061, 500	366, 700	347, 400	810, 60	
Transit and re-export trade		77, 200	000,100	19, 300	57, 20	
Total	849, 200	1, 138, 700	366, 700	366, 700	868, 50	
COTAL FROM ABIA:						
Entered for consumption						
Transit and re-export trade	15, 517, 200		16, 677, 200	18, 084, 100 83, 607, 600	17, 812, 10 64, 732, 20	
	48, 443, 000	60, 640, 600	66, 008, 000	83, 007, 000	04, 132, 20	
Australasia.						
Australasia:						
Entered for consumption	250, 900	115, 800		57, 900	*******	
Transit and re-export trade	0EA 000	116 000	.]	E7 000	38,60	
Total	250, 900	115, 800		57, 900	38, 60	
Entered for consumption	686, 076, 400	676, 986, 100	682, 583, 100	769, 761, 200	708, 271, 40	
Transit and re-export trade	197, 001, 100		178, 544, 300	177, 637, 200	173, 719, 80	
Total	883, 077, 500			947, 398, 400	881, 990, 70	
		, , , , , , , , , , , , , , , , , , , ,		1 , , , , , , , , , , ,	1 .	

FRANCE-Continued.

imports by countries—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 3, 647, 700 828, 100 3, 975, 800	Dollars. 8, 667, 000 308, 800 3, 975, 800	Dollars. 3, 995, 100 281, 600 4, 226, 700	Dollars. 8, 763, 500 866, 700 4, 130, 200	Dollars. 5, 230, 800 193, 000 5, 428, 800	Dollars. 3, 512, 600 96, 500 3, 609, 100	Dollars. 8, 049, 400 270, 200 8, 319, 600	Dollars. 4, 168, 800 88, 600 4, 207, 400
2, 798, 500	8, 995, 100	3, 126, 600	2, 509, 000	2, 509, 000	2, 026, 500	2, 123, 000	2, 123, 000
77, 200	1, 042, 200	154, 400	57, 900	154, 400	733, 400	96, 500	482, 500
2, 875, 700	5, 087, 800	3, 281, 000	<b>2, 566, 90</b> 0	2, 663, 400	2, 759, 900	2, 219, 500	2, 605, 500
1, 967, 900	1, 408, 900	2, 528, 300	1, 775, 600	2, 103, 700	1, 235, 200	1, 022, 900	907, 100
424, 600	57, 900	231, 600	405, 300	482, 500	453, 200	463, 200	598, 300
2, 412, 500	1, 466, 800	2, 759, 900	2, 180, 900	2, 586, 200	1, 688, 400	1, 486, 100	1, 505, 400
1, 022, 900	1, 447, 500	1, 496, 100	1, 505, 400	1, 515, 400	1, 351, 000	772, 000	984, 300
193, 000	96, 500	193, 000	77, 200	279, 500	193, 000	231, 600	212, 300
1, 215, 900	1, 544, 000	1, 679, 100	1, 582, 600	1, 794, 900	1, 544, 000	1, 003, 600	1, 196, 600
<b>22</b> 8, 100 115, 800 44 <b>3</b> , 900	521, 100 96, 500 617, 600	521, 100 154, 400 675, 500	579, 000 19, 300 598, 800	544, 400 540, 400	849, 200 19, 800 868, 500	772, 000 19, 800 791, 800	887, 800 77, 200 965, 000
250, 900	501, 800	559, 700	540, 400	405, 800	250, 900	463, 200	808, 800
270, 200	289, 500	808, 800	198, 000	38, 600	77, 200	212, 300	866, 700
521, 100	791, 800	868, 500	788, 400	448, 900	<b>328</b> , 100	675, 500	675, 500
177, 019, 600	227, 955, 800	227, 971, 600	181, 940, 100	169, 779, 800	160, 512, 200	147, 702, 900	145, 033, 600
21, 712, 500	28, 700, 400	21, 726, 500	29, 857, 100	21, 730, 600	30, 662, 600	18, 238, 500	22, 810, 800
198, 732, 100	251, 656, 200	249, 698, 100	211, 797, 200	191, 510, 400	191, 174, 800	165, 941, 400	167, 844, 400
26, 383, 100	24, 856, 600	<b>30, 030, 800</b>	43, 116, 200	40, 452, 800	47, 478, 000	44, 621, 600	87, 963, 100
984, 300	2, 528, 800	<b>8, 145, 900</b>	5, 288, 200	7, 623, 500	7, 565, 600	4, 072, 800	8, 898, 600
27, 367, 400	26, 884, 900	<b>83, 176, 700</b>	48, 404, 400	48, 076, 800	55, 048, 600	48, 698, 900	41, 861, 700
18, 026, 200	18, 412, 200	19, 473, 700	18, 585, 900	17, 022, 600	16, 885, 700	16, 791, 000	12, 120, 400
8, 998, 800	6, 890, 100	11, 136, 100	8, 495, 600	10, 825, 500	9, 148, 200	10, 943, 100	5, 365, 400
27, 020, 000	25, 302, 300	80, 609, 800	27, 081, 500	27, 848, 100	25, 538, 900	27, 784, 100	17, 435, 800
5, 790, 000	5, 905, 800	4, 439, 000	8, 511, 800	8, 627, 100	7, 918, 000	6, 677, 000	5, 654, 90
2, 837, 100	8, 300, 800	1, 428, 200	820, 900	1, 949, 300	791, 800	1, 062, 800	675, 50
8, 627, 100	9, 206, 100	5, 867, 200	9, 341, 200	10, 576, 400	8, 704, 800	7, 789, 300	6, 330, 40
154, 400	984, 300	1, 698, 400	1, 177, 800	1, 987, 900	1, 910, 700	3, 281, 000	8, 551, 200
482, 500	598, 300	448, 900	598, 800	675, 500	752, 700	887, 800	1, 406, 900
636, 900	1, 582, 600	2, 142, 800	1, 775, 600	2, 663, 400	2, 663, 400	4, 168, 800	4, 958, 100
4, 246, 000	3, 782, 800	6, 562, 000	5, 249, 600	7, 141, 000	4, 130, 200	3, 724, 900	9, 611, 400
57, 900	270, 200	231, 600	250, 900	752, 700	250, 900	202, 300	1, 134, 900
4, 203, 900	4, 053, 000	6, 793, 600	5, 500, 500	7, 803, 700	4, 381, 100	8, 927, 200	10, 746, 300
173, 700	598, 800	791, 800	516, 100	617, 600	521, 100	1, 756, 300	540, 400
57, 900	88, 600	185, 100	236, 600	193, 000	77, 200	88, 600	185, 100
281, 600	636, 900	926, 400	752, 700	810, 600	508, 300	1, 794, 900	675, 600
154, 400	443, 900	501, 800	347, 400	231, 600	617, 600	752, 700	886, 000
198, 000	886, 000	580, 000	886, 000	443, 900	405, 800	269, 200	270, 200
347, 400	829, 900	1, 061, 800	733, 400	675, 500	1, 022, 900	1, 021, 900	656, 200
115, 800 88, 200 154, 000	154, 400 154, 400	88, <b>6</b> 00	19, 300 19, 300		<b>96, 5</b> 00	178, 700 178, 700	1, 061, 500 178, 700 1, 235, 200
55, 043, 600	54, 638, 800	63, 585, 600	77, 508, 800	76, 080, 600	79, 052, 800	77, 778, 200	70, 888, 900
18, 644, 700	14, 011, 800	17, 080, 800	16, 104, 800	21, 963, 400	18, 991, 200	17, 475, 600	13, 060, 800
68, 688, 800	68, 650, 100	80, 616, 400	93, 608, 600	98, 044, 000	98, 044, 000	95, 258, 800	88, 949, 200
193, 000	1, 949, 300	4, 043, 000	4, 607, 800	4, 091, 600	1, 235, 200	6, 118, 100	2, 547, 600
289, 500	115, 800	96, 500	328, 100	193, 000	1, 466, 800	2, 161, 600	2, 412, 500
482, 500	2, 0 <b>6</b> 5, 100	4, 139, 500	4, 935, 900	4, 284, 600	2, 702, 000	ਖ਼ 279, 700	4, 960, 100
906, 006, 600 176, 151, 100	88 <b>6,</b> 8 <b>73, 60</b> 0 190, <b>9</b> 31, 800	971, 407, 600	938, 636, 200 218, 630, 400	930,607,400 220,039,300	927,229,900 208,903,200 1,136,133,100	838, <b>295</b> ,500 172,831,500	789, 061, <b>2</b> 00 162, <b>42</b> 8, 800

#### FEANON-Continued.

## Statement showing the

Whither exported.	1878.	1874	1875.	1876.	1877.
Continent of Europs.					
nited Kingdom:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
French products	177, 656, 500		205, 969, 600	199, 407, 600	204, 887, 90
Foreign products	48, 655, 800	47, 400, 800	42, 638, 700	47, 285, 000	51, 183, 60
Totalelgium :	226, 811, 800	237, 911, 100	248, 608, 800	246, 692, 600	255, 570, 60
French products	90, 748, 600	101, 054, 800	101, 749, 600	86, 020, 100	86, 155, 20
Foreign products	6, 677, 800	6, 542, 700	6, 649, 200	8, 588, 500	9, 657, 90
Total	97, 426, 400	107, 597, 500	108, 898, 800	94, 608, 600	95, 818, 10
ormany:	00 410 000		GO 004 F00	00 001 000	Se 054 90
French products		79, 824, 800 7, 918, 000	82, 891, 700 7, 604, 200	88, 221, 690 7, 835, 800	76, 254, 30 7, 141, 00
Total		87, 787, 800	89, 995, 900	91, 057, 400	88, 895, 20
witzerland:		0., 10., 500	, -	,,	' '
French products	65, 079, 600	57, 842, 100	60, 838, 600	57, 707, 000	45, 779, 60
Foreign products	17, 910, 400	17, 119, 100	15, 169, 800	15, 208, 400	18, 220, 50
Total	82, 990, 000	74, 961, 200	76, 003, 400	72, 915, 400	5 <del>0</del> , 000, 10
French products	44, 851, 400	89, 410, 600	42, 209, 100	41, 649, 400	85, 801, 50
Foreign products	23, 816, 200	25, 147, 900	24, 954, 900	29, 104, 400	21, 886, 20
Total		64, 558, 500	67, 164, 000	70, 753, 800	57, 687, 70
pain:					
French products	21, 249, 300	26, 865, 600	27, 135, 800	29, 818, 500	25, 572, 50
Foreign products. Total	13, 046, 800 34, 296, 100	16, 019, 000 42, 884, 00Q	15, 131, 200 42, 267, 000	17, 485, 800 47, 304, 300	18, 708, 00 39, 275, 50
urkey:	01, 250, 100	1	42, 201, 000	1	00, 210, 00
Franch products	16, 192, 700	15, 826, 000	14, 590, 800	8, 974, 590	7, 008, 80
Foreign products'	7,720,000	8, 820, 100	6, 696, 600	5, 577, 700	4, 861, 80
Total	23, 912, 700	24, 646, 100	21, 191, 400	14, 552, 200	11, 425, 60
olland:	6, 407, 600	6, 658, 500	9, 688, 600	7, 932, 300	6, 793, 60
French products	1, 003, 600	1, 293, 100	1, 370, 300	1, 698, 400	1, 924, 70
Total	7, 411, 200	7, 951, 640	11, 058, 900	9, 630, 700	8, 718, 30
ortugai:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	, , , , , , , , ,	
French products	4, 149, 590	4, 072, 300	4, 902, 200	4, 940, 800	4, 554, 80
Foreign products	1, 196, 600	1, 870, 800	1, 582, 000	1, 254, 500	1,891,40
Total	5, 346, 100	5, 442, 600	6, 484, 800	6, 195, 300	6, 446, 20
French products	3, 838, 900	2, 952, 900	4, 130, 200	3, 300, 300	8, 937, 20
Foreign products	1,003,600	1, 254, 500	866, 700	347, 400	405, 80
Total	4, 342, 500	4, 207, 400	4, 496, 900	8, 647, 700	4, 842, 50
reece :	0.050.000	0 010 000	0 407 400	0 000 500	0.000.00
French products	2, 952, 900	3, 010, 800 752 700	8, 485, 400	2, 682, 700 752, 700	2, 938, 64 847, 84
Total	598, 300 8, 551, 000	752, 700 3, 763, 500	738, 400	8, 435, 400	3, 821, 40
issis :	4, 652, 666	0, 100, 000	2, 200, 000	, 100, 100	0,000,00
French products	7, 835, 800	6, 967, 800	9, 128, 900	6, 677, 800	3, 068, 70
Foreign products	1, 042, 200	1, 621, 200	2, 045, 800	1, 293, 100	579,00
Total	8, 878, 000	8, 588, 500	11, 174, 700	7, 970, 900	8, 647, 70
oumania: - Franch products					}
French products					
Total					
nmark:	i		I	ł	
French products	791, 300	926, 400	1, 851, 000	1, 080, 800	926, 40
Foreign products	675, 500	289, 500	231, 600	154, 400	77, 20
T tal	1, 466, 800	1, 215, 900	1, 582, 600	1, 235, 200	1, 008, 60
French products	2, 103, 700	2, 180, 900	2, 547, 600	2, 529, 300	2, 258, 10
Foreign products	212, 300	193, 000	308, 800	328, 100	808, 80
Total	2, 316, 000	2, 373, 900	2, 856, 400	2, 856, 400	2, 566, 90
orway:			0.445.000		
French products	2, 065, 100	2, 835, 800	2, 045, 800	2, 451, 100	2, 412, 50
Foreign products	154, 400 2, 219, 500	57, 900 2, 393, 200	173, 700 2, 219, 500	193, 000 2, 644, 100	135, 10 2, 547, 60
alta and Gibraltar:	2, 212, 000	a, 000, 200	a, 210, 000	2, 023, 100	م روز ر
French products	887, 800	1, 022, 900	1, 273, 800	945, 700	849, 20
Foreign products	1.698.400	2, 952, 900	8, 107, 300	1, 003, 600	1, 003, 60
Total	2, 586, 200	3, 975, 800	4, 381, 100	1, 949, 300	1, 852, 80
TAL TO BUROPE:	1 -	E41 401 FOA	870 DOS 700	500 000 EAR	R00 740 04
French products	126 227 000	541, 461, 500	128, 668, 800	589, 888, 500 138, 110, 500	
	A.L. TEEL				CANAL AND MILE AND

#### FRANCE-Continued.

exports by countries.

	γ	<del>,</del>	<del></del>	<del></del>	·	•	<del></del>
1878.	1879.	1880.	1881.	1882.	1898.	1884.	1885.
<b>Dollars.</b>	Dollars.	<i>Pollars.</i>	<b>Dollars.</b>	<b>Dollars.</b>	<i>Dollars</i> .	Dollars.	Dollars.
176 672, 200	160, 228, 600	175, 745, 800	173, 275, 400	185, 588, 800	174, 894, 800	162, 506, 000	160, 112, 800
48, 185, 500	42, 096, 800	49, 548, 100	40, 742, 800	37, 229, 700	86, 880, 500	85, 241, 800	25, 012, 800
219, 807, 700	202, 825, 400	223, 288, 900	214, 017, 700	222, 818, 500	210, 775, 300	197, 747, 800	185, 125, 000
79, 072, 100	82, 874, 200	89, 859, 000	88, 240, 000	88, 239, 600	90, 980, 200	88, 181, 700	84, 898, 900
7, 005, 900	12, 641, 500	13, 876, 700	12, 332, 300	11, 715, 100	18, 978, 200	11, 792, 800	11, 502, 800
86, 078, 000	95, 515, 700	108, 235, 700	100, 572, 300	90, 954, 700	104, 953, 400	99, 974, 000	93, 901, 700
66, 334, 100	66, 295, 500	70, 089, 700	78, 919, 000	65, 888, 400	62, 918, 000	63, 284, 700	57, 977, 200
5, 867, 200	7, 121, 700	5, 905, 800	6, 793, 600	7, 982, 500	9, 186, 800	9, 206, 100	7, 797, 200
72, 201, 300	78, 417, 200	75, 945, 500	80, 712, 600	78, 820, 700	72, 104, 800	72, 490, 800	65, 774, 400
44, 274, 200	47, 574, 500	<b>42</b> , 587, 200	46, 899, 000	48, 057, 000	44, 235, 600	42, 151, 200	86, 882, 600
19, 338, 600	23, 970, 600	<b>26</b> , 556, 800	28, 216, 600	21, 249, 300	16, 783, 100	17, 582, 800	15, 823, 900
63, 612, 800	71, 545, 100	<b>69</b> , <b>09</b> 4, 000	75, 115, 600	69, 306, 300	60, 968, 700	59, 783, 500	52, 206, 500
82, 752, 100	84, 817, 200	84, <b>99</b> 0, 900	40, 568, 600	88, 677, 200	84, 122, 400	88, 157, 400	84, 218, 900
19, 242, 100	22, 830, 100	24, 819, 800	28, 914, 200	26, 190, 100	21, 403, 700	17, 524, 400	15, 903, 200
51, 994, 200	57, 147, 300	5 <b>9</b> , 810, 700	69, 482, 800	64, 867, 800	55, 526, 100	50, 681, 800	50, 122, 100
22, 556, 800	28, 872, 800	80, 629, 100	<b>82</b> , 827, 500	30, 416, 800	83, 080, 200	29, 548, 800	81, 843, 200
14, 185, 500	15, 517, 200	16, 694, 500	16, 887, 500	24, 491, 700	23, 314, 400	15, 169, 800	16, 866, 400
40, 742, 800	44, 890, 000	47, 828, 600	<b>49</b> , 215, 000	54, 908, 500	56, 394, 600	44, 718, 100	47, 709, 600
11, 039, 600	11, 522, 100	8, 781, 500	7, 885, 800	8, <b>492</b> , 000	8, 935, 900	9, 051, 700	9, 611, 400
7, 430, 500	8, 704, 300	6, 658, 500	7, 121, 700	6, <b>46</b> 5, 500	6, 098, 800	5, 597, 960	4, 863, 600
18, 470, 100	20, 226, 400	15, 440, 000	14, 957, 500	1 <b>4</b> , <b>9</b> 57, 500	15, 034, 700	14, 648, 700	14, 475, 000
6, 021, 600	8, 627, 100	7, 237, 500	8, <b>839</b> , <b>409 2, 835</b> , 200 <b>11, 174, 700</b>	8, 607, 800	7, 121, 700	6, 000, 600	7, 218, 200
2, 219, 500	2, 219, 500	1, 582, 600		2, 219, 500	2, 586, 200	2, 721, 800	2, 856, 400
8, 241, 100	10, 846, 600	8, 820, 100		10, 827, 300	9, 707, 900	9, 821, 900	10, 074, 600
<b>8, 037, 200 1, 273, 800 5, 211, 000</b>	3, 628, 400	3, 802, 100	8, 705, 400	3, 551, 200	8, 821, 400	4, 828, 200	8, 987, 200
	1, 059, 500	1, 408, 900	945, 700	1, 235, 200	886, 500	424, 600	752, 700
	4, 687, 000	5, 211, 000	4, 651, 300	4, 786, 400	4, 707, 900	4, 747, 800	<b>4, 689,</b> 900
4, 921, 500	4, 110, 900	5, 550, 500	6, 166, 700	6, 040, 900	5, 211, 000	8, 917, 900	<b>8</b> , 010, 800
424, 500	328, 100	378, 100	356, 700	579, 000	1, 447, 500	540, 400	540, 400
5, 346, 000	4, 439, 000	5, 928, 600	6, 528, 400	6, 619, 900	6, 658, 500	4, 458, 800	<b>8</b> , 551, 200
2, 779, 200	2, 451, 100	<b>3</b> , 184, 500	5, 635, 600	2, 759, 900	8, 068, 700	2, 296, 700	2, 084, 400
579, 000	920, 400	694, 800	1, 19 ; 600	810, 000	1, 100, 100	791, 300	714, 100
3, 858, 200	3, 377, 500	<b>8</b> , 879, 300	1, 832, 200	3, 570, 500	4, 168, 800	8, 088, 000	2, 798, 500
5, 790, 000	6, 600, 600	6, 502, 000	5, 712, 800	5, 925, 100	4, 842, 500	2, 586, 200	2, 451, 100
1, 235, 200	1, 119, 400	1, 370, 300	984, 800	926, 400	656, 200	448, 100	501, 800
7, 025, 200	7, 720, 000	7, 032, 300	6, 697, 100	6, 851, 500	4, 998, 700	3, 029, 800	2, 952, 400
		675, 500 231, 600 907, 100	1, <b>196</b> , 600 424, 600 1, 621, 200	1, 659, 800 328, 100 1, 987, 900	1, 466, 800 540, 400 2, 007, 200	1, 381, 700 443, 900 1, 775, 600	<b>656</b> , 200 270, 200 <b>926, 4</b> 00
1, 090, 800	926, 400	1, 196, 600	1, <b>582</b> , <b>600</b>	1, 061, 500	1, 351, 000	1, <b>389, 600</b>	1, 466, 800
57, 900	57, 900	115, 800	88, <b>600</b>	88, 600	96, 500	173, 700	115, 800
1, 138, 700	984, 300	1, 312, 400	1, <b>621</b> , 200	1, 100, 100	1, 447, 500	1, 563, 800	1, 582, 600
1, 158, 000	1, 215, 900	1, 544, 000	1, <b>69</b> 8, 400	1, 215, 900	1, 331, 700	1, 831, 700	1, 408, 900
212, 300	135, 100	115, 800	115, 800	231, 600	154, 400	212, 800	196, 500
1, 870, 300	1, 351, 000	1, 659, 800	1, 814, 200	1, 447, 500	1, 486, 100	1, 544, 000	1, 605, 400
1, 486, 100	945, 700	2, 184, 400	2, <b>682</b> , 700	1, 285, 200	1, 428, 200	1, 408, 900	984, 800
154, 400	193, 000	15, 800	115, 800	180, 100	154, 400	96, 500	38, 600
1, 640, 500	1, 138, 700	2, 200, 200	2, 798, 500	1, 421, 300	1, 582, 600	1, 505, 400	1, 022, 900
791, 300	752, 700	617, 600	656, 200	772, 000	579, 000	405, 300	501, 800
1, 196, 600	1, 022, 900	540, 400	675, 500	829, 900	617, 600	443, 900	847, 400
1, 967, 900	1, 775, 600	1, 158, 000	1, 331, 700	1, 001, 900	1, 196, 600	849, 200	849, 200
464, 666, 800 123, 558, 600 588, 225, 400	461, 445, 700 139, 442, 000 600, 887, 700	484, 638, 300 150, 509, 300 685, 147, 600	500, 941, 800 148, 197, 200 649, 139, 000	142, 658, 600	478, 889, 100 185, 380, 300 613, 719, 400	118, 414, 700	437, 764, 700 103, 603, 300 541, 368, 000

FRANCE-Continued.

## Statement showing the exports

Whither exported.	1878.	1874.	1875.	1876.	1877.
Continent of Africa.					
lgeria :	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
French products	. 27, 077, 900	26, 170, 800	28, 197, 300	28, 660, 500	26, 658, 30
Foreign products	. 3, 917, 900	4, 825, 000	4, 284, 600	4, 093, 000	8, 686, 30
Total	. 30, 995, 800	80, 995, 800	82, 481, 900	82, 753, 500	30, 389, 60
gypt:	0 500 500	7 504 000	0 108 000	E E07 000	4 005 70
French products	. 8, 588, 500	7, 584, 900	8, 125, 300	5, 597, 000	4, 805, 70
Foreign products		1, 544, 000 9, 128, 900	1, 273, 800 9, 899, 100	1, 428, 200 7, 025, 200	1, 215, 90 6, 021, 60
arbary States:	. 10, 000, 500	0, 120, 500	<b>2, 555, 100</b>	1, 020, 200	0, 021, 00
French products	. 2, 489, 700	2, 798, 500	2, 644, 100	1, 930, 000	2, 258, 10
Foreign products	. 907, 100	1, 331, 700	1,003,600	887, 800	965, 00
Total		4, 130, 200	8, 647, 700	2, 817, 800	8, 228, 10
enogal:					
French products	. 907, 100	887, 800	926, 400	926, 400	945, 70
Foreign products	. 1, 831, 700	1, 196, 600	1, 851, 000	1, 428, 200	1, 814, 20
Total	. 2, 238, 800	2, 084, 400	2, 277, 400	2, 354, 600	2, 759, 90
ritish Africa:	0 000 500	1 050 100	3 079 000	701 000	3 800 60
French products	. 2, 026, 500	1, 679, 100	1, 278, 800	791, 800	1, 582, 60
Foreign products	. 212, 300	250, 900 1, 930, 000	847, 400 1, 621, 200	752, 700 1, 514, 000	308, 80 1, 891, 40
union:		1, 500, 000	1, 021, 200	1, 017, 000	1, 001, 30
French products	. 2, 065, 100	2, 103, 700	, 1, 601, 900	1, 659, 800	1, 568, 80
Foreign products	250, 900	289, 500	154, 400	250, 900	366, 70
Total	. 2, 816, 000	2, 893, 200	1, 756, 300	1, 910, 700	1, 980, 00
cet coast of Africa:				· ·	1
French products	. 1, 833, 500	1, 447, 500	1, 563, 800	675, 500	579, 00
Foreign products	. 579,000	617, 600	540, 400	540, 400	810, 60
Total	. 2, 412, 500	2, 065, 100	2, 103, 700	1, 215, 900	1, 889, 60
l other places in Africa:	050 000	000 700	001 000	001 000	1
French products	. 250, 900	328, 100	281, 600	231, 600	
Foreign products Total	. 212, 800	250, 909	886, 000	185, 100 866 700	185, 10
TOTAL TO AFRICA:	. 463, 200	579, 000	617, 600	366, 700	328, 10
French products	45, 289, 200	43, 000, 400	44, 563, 700	40, 472, 100	38, 580,70
Foreign products	. 9, 688, 600	10, 806, 200	9, 841, 200	9, 516, 800	9, 302, 60
Total	. 54, 927, 800	53, 306, 600	53, 904, 900	49, 988, 400	47, 883, 80
Continent of America.					
·		ì			
he United States: French products	. 56, 220, 900	57, 205, 200	51, 029, 200	44, 312, 800	40, 403, 80
Foreign products	. 17, 756, 000	15, 575, 100	18, 547, 800	17, 698, 100	21, 047, 40
Total	. 73, 976, 900	72, 780, 300	69, 576, 500	62, 010, 900	61, 451, 2
rgentine Republic:				, ,	
French products	. 18, 489, 400	10, 904, 500	14, 378, 500	10, 209, 700	14, 610, 10
Foreign products	. 4, 960, 100	3, 358, 200	2, 873, 900	1, 659, 800	1, 872, 10
Total	. 28, 449, 500	14, 262, 700	16, 752, 400	11, 869, 500	16, 482, 20
ezil:	40 812 555	10 007 777			
French products	. 13, 915, 800	13, 027, 500	14, 127, 600	15, 710, 200	14, 918, 90
Foreign products	. 3, 68t, 300	8, 049, 400	3, 628, 400	2, 219, 500	2, 547, 60
Total	. 17, 601, 600	16, 076, 900	17, 756, 000	17, 929, 700	17, <b>466</b> , 50
nited States of Colombia: French products	. 5, 809, 300	8, 987, 200	3, 667, 000	3, 879, 300	3, 416, 10
Foreign products	. 1, 852, 800	598, 800	656, 200	694, 800	1, 003, 60
Total	7, 662, 100	4, 535, 500	4, 828, 200	4, 574, 100	4, 419, 70
exico:	1, 33, 200	3, 300, 500	-,,	_, _, _, _, _,	-,, *
French products	. 8, 454, 700	3, 165, 200	3, 396, 800	2, 219, 500	3, 551, 20
Foreign products	. 2, 180, 900	1, 196, 600	1, 273, 800	636, 900	1, 389, 60
Total	5, 635, 600	4, 361, 800	4, 670, 600	2, 856, 400	4, 940, 80
ruguay:	F 000 000		0 800 500	0 402 454	
French products	. 7, 063, 800	4, 593, 400	2, 720, 300	3, 435, 400	3, 995, 10
Foreign products	. 2, 566, 900 9, 630, 700	1, 003, 600	676, 500 3, 396, 800	810, 600	810, <b>6</b> 0 4, 805, 70
Total	. 000, 100	5, 597, 000	0, 000, 000	4, 246, 000	7, 000, 1
nili: French products	. 8, 878, 000	7, 814, 700	6, 021, 600	5, 481, 200	4, 496, 90
Foreign products	8, 165, 200	1, 621, 200	1, 119, 400	1, 812, 400	733, 40
Total	. 12, 043, 200	8, 935, 900	7, 141, 000	6, 793, 600	5, 230, 30
Thomas:				, ,	
French products	. 1, 524, 700	2, 296, 700	2, 161, 600	1, 640, 500	2, 103, 70
Foreign products	.]	212, 800	154, 400	193, 000	463, 20
Total	. 1, 524, 700	2, 509, 000	2, 316, 000	1, 833, 500	2, 566, 90
uadeloupe:					
French products		2, 854, 600	2, 354, 600	1, 949, 300	2, 161, 60
Foreign products	. 675, 500	521, 100	849, 200	521, 100	714, 10
Total	. 3, 203, 800	2, 875, 700	<b>8, 203, 800</b>	2, 470, 400	2, 875, 70

FEANCE-Continued.

by countries—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 24, 877, 700 5, 075, 900 29, 958, 600	Dollars. 26, 884, 900 6, 272, 500 83, 157, 400	Dollars. 81, 227, 400 6, 176, 000 87, 403, 400	<b>Dollars.</b> 31, 053, 700 6, 888, 800 87, 442, 000	Dollars. 81, 9.2, 200 8, 856, 900 40, 279, 100	Dollars. 29, 818, 500 8, 530, 600 38, 349, 100	Dollars. 28, 818, 160 6, 948, 000 85, 261, 100	Dollars. 82, 866, 100 4, 516, 200 86, 882, 300
5, <b>6</b> 16, <b>3</b> 00	5, <b>807</b> , 500	7, 287, 500	5, 905, 800	3, <b>898, 600</b>	4, 651, 300	8, 956, 500	4, 554, 800
1, <b>4</b> 08, <b>9</b> 00	1, 872, 100	1, 872, 100	2, 065, 100	1, 910, 700	2, 141, 800	2, 280, 900	2, 180, 900
7, <b>02</b> 5, <b>2</b> 00	7, 179, 600	9, 109, 600	7, 970, 900	5, 809, 300	6, 792, 600	6, 287, 400	6, 735, 700
2, 180, 900	2, 200, 200	1, 949, 300	2,586, 200	4, 033, 700	4, 323, 200	8, 165, 200	4, 180, 200
1, 254, 500	1, 428, 200	907, 100	1, 158, 000	1, 814, 200	1, 556, 300	1, 640, 500	1, 910, 700
3, 435, 400	8, 628, 400	2, 856, 400	8, 744, 200	5, 847, 900	5, 879, 500	4, 805, 700	6, 040, 900
945, 700	1, 196, 600	1, 505, 400	1, 794, 900	1, 505, 400	1, 65A, 800	1, 794, 900	1, 787, 000
1, 872, 100	2, 413, 500	2, 200, 200	2, 123, 000	2, 893, 200	8, 396, 800	2, 953, 600	8, 819, 600
2, 817, 800	8, 610, 100	3, 703, 600	3, 917, 900	3, 898, 600	5, 056, 600	4, 728, 500	5, 056, 600
2, 103, 700	2, 142, 800	1, 679, 100	1, 717, 700	1, 949, 300	1, 852, 800	1, 659, 800	1, 273, 800
808, 800	328, 100	231, 600	714, 100	501, 800	791, 300	598, 800	828, 100
2, 412, 500	2, 470, 400	1, 910, 700	2, 431, 800	2, 451, 100	2, 644, 100	2, 258, 100	1, 601, 900
1, 872, 100	1, 428, 200	1, 775, 600	1, 544, 000	1, 621, 200	1, 505, 400	1, 812, 400	1, 298, 100
424, 600	421, 600	617, 600	501, 800	270, 200	289, 500	308, 800	270, 200
2, 296, 700	1, 852, 800	2, 893, 200	2, 045, 800	1, 891, 400	1, 794, 900	1, 621, 200	1, 563, 800
448, 900	579, 000	501, 800	386, 000	481, 500	443, 900	569, 300	135, 100
636, 900	981, 800	984, 800	328, 100	848, 400	270, 200	154, 400	178, 700
1, 080, 800	1, 563, 300	1, 486, 100	714, 100	829, 900	714, 100	743, 700	308, 800
281, 600	328, 100	405, 800	<b>366, 700</b>	686, 900	366, 700	96, 500	847, 400
212, 800	193, 000	178, 700	135, 100	154, 400	366, 700	270, 200	178, 700
443, 900	521, 100	579, 000	501, 800	791, 800	733, 400	366, 700	521, 100
38, 271, 900	40, 066, 700	46, 281, 400	45, 855, 000	46, 048, 800	44, 621, 600	40, 887, 700	45, 887, 500
11, 194, 000	13, 916, 300	13, 162, 600	18, 418, 500	15, 749, 800	17, 842, 700	15, 184, 700	12, 878, 100
49, 465, 900	53, 983, 000	59, 444, 000	58, 768, 500	61, 798, 600	61, 964, 800	56, 022, 400	58, 710, 600
40, 028, 200	53, 806, <b>6</b> 00	64, 114, 600	61, 586, 800	70, 445, 000	67, 569, 300	53, 194, 800	49, 060, 600
19, 068, 400	23, 353, 000	80, 571, 200	28, 120, 100	82, 559, 100	29, 760, 600	26, 727, 000	28, 891, 600
50, 096, 600	7 <b>6, 659, 6</b> 00	94, 685, 800	89, 706, 400	103, 004, 100	97, 329, 900	79, 921, 800	72, 452, 200
12, 969, 600	14, 108, 300	16, 327, 800	18, 624, 500	19, 801, 800	20, 380, 800	23, 005, 600	18, 489, 400
1, 968, 600	2, 486, 700	2, 933, 600	4, 496, 900	6, 002, 800	4, 516, 200	4, 256, 000	7, 063, 800
14, 988, 200	16, 595, 000	19, 261, 400	28, 121, 400	25, 804, 100	24, 897, 000	27, 261, 600	25, 553, 200
13, 336, 800	13, 683, 700	14, 706, 600	14, 282, 000	11, 985, 800	12, 853, 800	12, 062, 500	10, 557, 100
1, 949, 300	1, 910, 700	8, 937, 200	8, 821, 400	4, 805, 700	2, 798, 500	8, 377, 500	1, 968, 600
15, 285, 600	15, 594, 400	18, 643, 800	18, 103, 400	16, 791, 000	15, 652, 30 <del>0</del>	15, 440, 000	12, 525, 700
4, 033, 700	4, 303, 900	4, 091, 609	5, 095, 200	4, 689, 900	4, 825, 000	5, 288, 200	4, 207, 400
1, 080, 800	1, 371, 300	1, 698, 400	1, 219, 400	1, 273, 800	1, 158, 000	1, 872, 100	1, 852, 800
5, 114, 500	5, 675, 200	5, 790, 000	6, 214, 600	5, 963, 700	5, 983, 000	7, 160, 300	6, 060, 200
3, 396, 800	2, 663, 400	8, 435, 400	4, 400, 400	5, 384, 700	4, 593, 400	4, 033, 700	8, 531, 900
2, 875, 000	2, 489, 700	2, 626, 800	4, 591, 400	4, 728, 500	5, 191, 700	2, 547, 600	2, 451, 100
6, 271, 800	5, 153, 100	6, 062, 200	8, 991, 800	10, 113, 200	9, 785, 100	6, 581, 300	5, 983, 000
3, 551, 200	4, 091, 600	4, 053, 000	4, 149, 500	4, 091, 600	8, 628, 400	3, 937, 200	3, 396, 800
580, 800	617, 600	675, 500	868, 500	1, 544, 000	1, 100, 100	1, 408, 900	965, 000
4, 132, 000	4, 709, 200	4, 728, 500	5, 018, 000	5, 635, 600	4, 724, 500	5, 346, 100	4, 361, 800
3, 338, 900	2, 258, 100	3, 435, 400	5, 249, 600	5, 809, 300	5, 807, 500	3, 860, 000	2, 816, 000
617, 600	\$86, 000	463, 200	1, 119, 400	2, 972, 100	1, 582, 600	965, 000	926, 400
3, 956, 500	2, 644, 100	3, 898, 600	6, 369, 000	8, 781, 500	6, 890, 100	4, 825, 000	8, 242, 400
2, 856, 400	2, 566, 900	4, 612, 700	8, 995, 100	2, 856, 400	2, 798, 500	8, 896, 800	1, 872, 100
347, 400	443, 900	810, 600	636, 900	482, 500	579, 000	559, 700	250, 900
3, 203, 800	3, 010, 800	5, 423, 300	4, 632, 000	3, 338, 900	3, 377, 500	8, 956, 500	2, 123, 000
2, 277, 400	2, 316, 000	2, 238, 800	2, 277, 400	2, 451, 100	2, 893, 200	2, 258, 100	1, 833, 500
887, 800	772, 000	810, 600	772, 000	849, 200	868, 500	849, 200	501, 800
<b>3, 165, 200</b>	3, 088, 000	<b>8, 049, 400</b>	<b>8, 049, 4</b> 00	8, 800, 800	8, 281, 700	8, 107, 800	<b>2, 835, 300</b>

FEANCE-Continued.

### Statement showing the exports

Whither exported.	1873.	1874.	1875.	1876.	1877.
Continent of America—Continued.					
Lartinique :	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Freuch products		2, 5.28, 800	2, 972, 200	2, 200, 200	2, 702, CO
Foreign products	887. 100	1,042 200	1, 196, 600	984, 300	1,831,70
Total	3, 602, 100	8, 570, 500	4, 168, 800	3, 184, 500	4, 033, 70
French products	. 7, 816, 500	4, 902, 200	4, 593, 400	3, 300, 800	3, 802, 10
Foreign products	3, 686, 300	1, 270, 800	1, 100, 100	658, 000	714, 10
Total	11, 502, 800	6, 272, 500	5, 693, 500	3, 956, 300	4, 516, 20
ayti:	į				
French products	2, 393, 200	2, 489, 700	4, 207, 400	2, 547, 600	2, 316, 00
Foreign products	540, 400 2, 933, 600	405, 300 2, 893, 000	714, 100 4, 921, 500	250, 900 2, 798, 500	1, 061, 50 3, 377, 50
rench Guiana:	2, 550, 500	2,000,000	1	1 2, 100, 000	0,011,00
French products	1, 042, 200	849, 200	1, 003, 600	1, 080, 800	1, 020, 80
Foreign products	178, 700	270, 200	154, 400	231, 600	405, 30
Total	1, 215, 900	1, 119, 400	1, 158, 000	1, 312, 400	1, 486, 10
enezuela: French products	1, 351, 000	887, 800	1 400 000	1 010 000	1 640 50
Foreign products	213, 300	231,600	1, 466, 800 783, 400	1, 852, 800 443, 900	1, 640, 50 772, 00
Total	1, 563, 300	1, 119, 400	2, 20 , 200	2, 296, 700	2, 412, 50
panish America:	· ·	5, 220, 200	7,200,200		1
French products.	. 4, 516, 200	2, 895, 000	4, 265, 300	3, 145, 900	8, 040, 40
Foreign products	1, 679, 100	887, 800	579, 000	463, 200	1, 158, 00
Total	6, 195, 300	3, 782, 800	<b>3</b> , 814, 300	3, 609, 100	4, 207, 40
k. Pierre, Miquelon, &c.: French products	1, 447, 500	1, 351, 000	1, 196, 600	1, 138, 700	1, 119, 40
Foreign products	135, 100	154, 400	135, 100	77, 200	178, 70
Total	1, 582, 600	1, 505, 400	1, 331, 700	1, 215, 900	1, 293, 10
ritish America:					
French products	2, 045, 800	1 -1 -4 -1 -4 -4		1, 466, 800	1, 254, 50
Foreign products	289, 500	886,000	193,000	115, 800	250, €0
Total	2, 335, 300	2, 547, 600	1, 930, 000	1, 582, 600	1, 503, 40
French products	636, 900	289, 500	231, 600	443, 900	463, 20
Foreign products	96, 500	115, 800	57, 900	154,400	JG, 50
Total		405, 300	280, 500	598, 300	559, 70
uatemala:	<b>5</b> 4 100	000 000	445 500	-10,100	
French products	714, 100	386, 000	448, 900	540, 400	501, 80
Foreign products	96, 500 310, 600	77, 200 463, 200	77, 200 521, 100	115, 800 656, 200	154, 40 656, 20
utch Possessions:	020,000	100, 200	022, 200	000,200	000, 20
French products	849, 200	501, 800	308, 800	231, 600	231, 60
Foreign products	57, 900		38, 600	57, 900	289, 50
Total	907, 100	501, 800	347, 400	289, 500	521, 10
OTAL TO AMERICA: French products	142 611 900	124, 041, 100	122, 283, 800	106, 786, 900	107 919 70
Foreign products	44, 698, 800	82, 076, 600	84, 258, 500	29, 297, 200	107, 818, 70 86, 989, 20
Total	. 188, 310, 100	156, 117, 700	156, 542, 300	136, 084, 100	144, 807, 9
		,,	,		
Continent of Asia.					
ritish India : French products	1, 196, 600	1 049 900	1 500 600	1, 235, 200	1 001 0
Foreign products	772,000	1, 042, 200 1, 833, 500	1, 582, 600 2, 854, 600	1, 775, 600	1, 621, 26 2, 084, 46
Total	1, 968, 600	2, 875, 700	3, 937, 200	3, 010, 800	8, 705, 6
hina:				' '	' '
• French products	598, 300	<b>80</b> 8, 800	617, 600	656, 200	598, 30
Foreign products	3, 879, 800	579, 000	675, 500	598, 300	694, 80
Total	4, 477, 600	887, 800	1, 293, 100	1, 251, 500	1, 293, 10
French products.			926, 400	829, 900	849, 20
Foreign products		<i>.</i>	154, 400	250, 900	154, 40
Total			1, 080, 800	1, 080, 000	1, 003, 6
ntch India:	000 500	101 000	017 000	050 030	500.0
French products	289, 500			656, 200	598, 30
Foreign products	675, 500 965, 000	617, 600 1, 042, 200	424, <b>6</b> 00 1, 042, 200	963, COO	173, 70 772, 00
ipan:	500,000	1, 052, 200	1, 012, 200	500,000	1 12, 0
French products	1, 640, 500	1, 563, 300	2, 277, 400	1, 775, 600	1, 466, 8
Foreign products	2. 835, 300	8, 956, 500	4, 130, 200	4, 323, 200	8, 493, 30
Total.		5, 519, 800	6, 407, 600	<b>6,</b> 098, 800	4, 960, 10
hilippine Islands:		010 554	112 000	118 000	050.0
French products	77, 200	212, 800	115, 800	115, 800	
Foreign products	88, 600		19, 800	77, 200	90,50

FRANCE-Continued.

by countries—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1864.	1885.
<b>Dollars.</b> 2, 721, 300 1, 273, 800 3, 995, 100	Dollars. 2, 614, 100 1, 177, 300 3, 821, 400	<b>Dollars.</b> 2, 721, 300 1, 273, 800 8, 995, 100	<b>Dokars.</b> 2, 470, 400 1, 042, 200 3, 512, 630	Dollars. 2, 489, 700 963, 900 8, 454, 700	Dollars. 2. 644, 100 1, 812, 400 8, 956, 500	Dollars. 2, 065, 100 887, 800 2, 952, 900	<i>Dollars</i> . 1, 910, 700 636, 900 2, 547, 600
4, 033, 700	2, 605, 500	984, 300	2, 123, 000	1, 696, 400	1, 563, 800	2, 045, 800	1, 408, 900
984, 300	443, 900	231, 600	231, 600	424, 600	270, 200	212, 800	886, 000
5, 018, 000	8, 019, 400	1, 215, 900	2, 354, 600	2, 123, 000	1, 833, 500	2, 258, 100	1, 408, 900
2, 065, 100	1, 235, 200	2, 180, 900	1, 75 <b>6</b> , 300	617, 600	598, 300	1, 293, 100	1, 215, 900
270, 200	212, 3 0	808, ⊦00	292, 500	154, 400	185, 100	212, 300	173, 700
2, 835, 300	1, 447, 500	2, 489, 700	2, 048, 800	772, 000	788, 400	1, 505, 400	1, 889, 600
984, 300	984, 800	1, 022, 900	1, 254, 500	1, 061, 500	1, 138, 700	1, <b>003, 600</b>	868, 500
289, 500	270, 200	808, 800	847, 400	270, 200	847, 400	270, 200	270, 200
1, 273, 800	1, 254, 500	1, 331, 700	1, 601, 900	1, 831, 700	1, 486, 100	1, 273, 800	1, 138, 700
1, 717, 700	2, 084, 400	1, 351, 000	1, <b>659</b> , 800	965, 000	984, 300	887, <b>800</b>	675, 500
694, 800	540, 400	636, 900	424, 600	- 806, 700	347, 400	886, 000	178, 700
2, 412, 500	2, 624, 800	1, 987, 900	2, 084, 400	1, 331, 700	1, 831, 700	1, 278, 800	849, 200
2, 779, 200	2, 740, 600	3, 310, 300	2, 895, 000	2, 451, 100	1, 891, 400	934, 890	<b>86</b> 8, 500
1, 251, 500	1, 177, 300	903, 609	1, 196, 600	907, 100	579, 000	270, 200	<b>289</b> , 600
4, 033, 700	3, 917, 900	4, 303, 900	4, 091, 600	3, 858, 200	2, 470, 400	1, 254, 560	1, 158, 000
1, 119, 400	1, 061, 500	714, 100	714, 100	926, 400	791, 800	907, 100	887, 800
193, 000	173, 700	154, 400	173, 700	154, 400	154, 400	212, 800	154, 400
1, 312, 400	1, 235, 200	868, 500	887, 800	1, 080, 800	945, 700	1, 119, 400	1, 042, 200
1, <b>254</b> , 5 <b>0</b>	1, 177, 300	1, 177, 200	1, <b>293</b> , 100	1, <b>389, 60</b> 0	1, 080, 800	887, 800	752, 700
77, 200	115, 800	135, 100	212, 300	185, 100	135, 100	57, 900	38, 600
1, <b>33</b> 1, 700	1, 293, 100	1, 312, 400	1, 505, 400	1, 524, 700	1, 215, 900	945, 700	791, 800
463, 200	733, 400	849, 200	829, 900	<b>579</b> , 000	675, 500	521, 000	154, 400
115, 800	115, 800	808, 800	270, 200	173, 700	250, 900	847, 500	154, 400
579, 000	849, 200	1, 158, 000	1, 100, 100	752, 700	926, 400	868, 500	808, 800
559, 760	617, 600	501, 800	791, 300	448, 900	250, 900	269, 200	115, <b>800</b>
193, 000	103, 000	250, 900	212, 300	135, 100	133, 100	95, 500	57, 900
752, 700	810, 600	752, 700	1, 003, 600	579, 000	386, 000	364, 700	173, 700
231, 600	270, 200	847, 400	403, 300	212, 300	173, 700	135, 100	38, 600
231, 600	173, 700	173, 700	847, 400	347, 400	212, 300	231, 600	57, 900
463, 200	443, 900	521, 100	752, 700	559, 700	38 <b>6</b> , 000	<b>866, 700</b>	96, 500
103, 718, 2 <b>6</b> 0	115, 452, 600	133, 176, 200	135, 832, 700	140, 349, 600	51, 434, 500	122, 036, 800	104, 162, 100
<b>34, 9</b> 53, 400	38, 424, 300	48, 303, 500	50, 816, 100	59, 251, 000		45, 746, 609	41, 763, 200
138, <b>6</b> 71, 600	153, 876, 900	181, 479, 700	186, 168, 800	199, 600, 600		167, 782, 900	145, 927, 800
1, 582, 600	1, 370, 300	1, 080, 800	945, 700	1, 659, 800	1, 563, 800	1, 775, 600	1, 196, 000
1, 640, 500	1, 196, 600	1, 524, 700	1, 910, 700	2, 026, 500	1, 814, 200	1, 621, 200	2, 100, 100
3, 223, 100	2, 566, 900	<b>2,</b> 605, 500	2, 856, 400	3, 685, 300	8, 377, 500	8, 896, 800	3, 296, 700
540, 400	675, 500	656, 200	<b>636, 200</b> 6, 311, 100 6, <b>967, 300</b>	579, 000	482, 500	772, 000	559, 700
2, 316, 000	3, 917, 900	8, 300, 300		5, 326, 800	a, 358, 200	2, 470, 400	2, 702, 000
<b>2, 856, 400</b>	4, 593, 400	8, 956, 500		5, 905, 800	8, 840, 700	8, 242, 400	3, 261, 700
599, 800	810, 600	829, 900	887, 800	1, 068, 600	1, 389, 600	1, 563, 800	2, 837, 100
424, 600	887, 800	886, 000	231, 600	482, 500	443, 900	482, 500	783, 400
1, 022, 900	1, 698, 400	1, 215, 900	1, 119, 400	1, 486, 100	1, 833, 500	2, 045, 800	8, 570, 500
579, 000	810,600	540, 400	598, 300	482, 500	617, 600	733 400	1, 008, 600
231, 600	250,900	212, 300	193, 000	405, 300	501, 800	617, 600	501, 800
810, 600	1,061,500	752, 700	791, 300	887, 800	1, 119, 400	1, 851, 000	1, <b>5</b> 05, 400
1, 466, 800	1, 698, 400	1, 003, 600	675, 500	482, 500	579, 000	598, 800	598, 300
1, 718, 000	1, 794, 900	1, 544, 0.4)	965, 000	1, 003, 600	636, 900	847, 400	386, 000
3, 184, 800	3, 493, 300	2, 547, 600	1, 640, 500	1, 486, 100	1, 215, 900	945, 700	984, 300
178, 700	173, 700	193, 600	173, 700	328, 100	828, 100	193, 000	77, 200
115, 800	96, 500	231, 600	38 <b>6</b> , 000	907, 100	405, 900	328, 100	270, 206
249, 500	270, 200	424, 600	<b>559,</b> 700	1, 235, 200	783, 400	521, 100	847, 400

#### FRANCE.-Continued.

# Statement showing the exports

Whither exported.	1873.	1874.	1875.	1876.	1877.
Continent of Asia—Continued.					-
French India:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
French products	115, 800	115, 800	173, 700	154, 400	212, 300
Foreign products	57, 900	19, 800	19, 300	101, 100	19, 300
Total	173, 700		193, 000	154, 400	231, 600
Siam:	1.0,100	100, 100	100,000	151, 100	201,000
French products	96, 500	38, 600	88, 600		57, 900
Foreign products	1, 158, 000		88, 600		27, 800
Total	1, 254, 500		77, 200		E7 (M)
Total to Asia:	1, 201, 000	1,000,000	11,200		57, 900
Franch products	4, 014, 400	8, 705, 600	6, 349, 700	5, 423, 300	E 884 000
Foreign products	8, 916, 600		7, 816, 500		5, 654, 900
Total	12, 931, 000	11, 784, 400		7, 884, 000	6, 716, 400
<b></b>	12, 551, 666	11, 102, 700	14, 166, 200	12, 757, 300	12, 371, 300
Australasia.	Ì				
Australasia :					
French products	405, 300	540, 400	115, 800	289, 500	270, <b>200</b>
Foreign products	19, 300	88, 600	220,000	100,000	19, 300
Total	424, 600	579, 000	115, 800	289, 500	289, 500
GRAND TOTAL EXORTS:	, 300	1 3.5,300	120,000	200, 000	
	780, 948, 900	714, 812, 800	747, 411, 800	690, 090, 800	663, 205, 900
Foreign products	199, 755, 000	193, 093, 000			180, 358, 500
Total	930, 703, 900	907, 405, 800			848, 564, 400

### Value of principal

Batered for consumption	Articles.	1873.	1874.	1875.	1876.	1877.
Entered for consumption	Akmentary products.					
Transit and re-export. 25, 842, 700   10, 827, 300   10, 489, 200   57, 803, 500   49, 523    Wines:  Entered for consumption 5, 558, 400   1, 405, 400   2, 663, 400   37, 249, 900   67, 803, 500   49, 523    Transit and re-export 1, 254, 500   1, 405, 400   829, 900   849, 200   1, 422    Entered for consumption 29, 779, 900   19, 367, 900   21, 538, 800   77, 200   11, 423    Coffee:  Entered for consumption 19, 203, 500   17, 041, 900   20, 284, 800   30, 281, 700   35, 955    Entered for consumption 21, 448, 500   11, 453, 500   18, 257, 800   12, 911, 700   10, 518    Transit and re-export. 270, 200   270, 200   270, 200   289, 500   488, 500   488, 500    Total 31, 452, 900   17, 041, 900   20, 284, 800   20, 244, 000   10, 518    Total 31, 453, 500   17, 454, 900   28, 525, 400   30, 281, 700   32, 488    Transit and re-export 270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   270, 200   289, 500   318, 100   288    Entered for consumption 6, 002, 300   4, 921, 500   5, 558, 400   5, 558, 400   6, 238    Butter and cheese:  Entered for consumption 11, 458, 500   115, 800   125, 110   10, 904, 500   14, 204    Transit and re-export 11, 468, 800   115, 800   115, 800   125, 110   10, 904, 500   14, 204    Total 11, 500   5			Dollars.	Dollars.	Dollars.	Dollars.
Transit and re-export. 25, 842, 700   10, 827, 300   10, 498, 200   11, 580, 700   67, 803, 500   49, 523    Wines: Entered for consumption. 5, 558, 400   1, 405, 400   1, 405, 400   1, 405, 400   13, 300   13, 493, 300   14, 224    Entered for consumption. 29, 779, 900   19, 367, 900   115, 80, 900   115			63, 825, 100	26, 749, 800	46, 242, 800	39, 951, 000
Total Wines: Entered for consumption						9, 572, 800
Entered for consumption		. 70, 848, 500	74, 652, 400	87, 249, 000	57, 803, 500	49, 523, 800
Transit and re-export					' '	
Total				2, 663, 400	4, 882, 900	5, 698, 500
Animals (horses excepted:) Entered for consumption					849, 200	1, 422, 900
Entered for consumption 29, 779, 900 96, 500 183, 900 21, 538, 800 77, 200 11, 483, 900 11, 887, 900 21, 654, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 35, 955 (20, 204, 600 30, 281, 700 36, 500 31, 19, 107 (20, 201, 201, 201, 201, 201, 201, 201, 2		- 6, 812, 900	7, 137, 500	3, 493, 800	5, 782, 100	6, 716, 400
Transit and re-export. 29, 876, 400 19, 550, 900 21, 654, 600 80, 281, 700 \$5, 955 \$60 \$77, 200 \$25, 955 \$750, 900 21, 654, 600 80, 281, 700 \$25, 955 \$750, 900 21, 654, 600 80, 281, 700 \$25, 955 \$750, 900 \$21, 654, 600 80, 281, 700 \$25, 955 \$750, 900 \$21, 654, 600 80, 281, 700 \$25, 955 \$750, 900 \$21, 654, 600 80, 281, 700 \$25, 955 \$750, 900 \$21, 654, 600 80, 281, 700 \$25, 955 \$750, 900 \$20, 284, 300 \$20, 290, 304, 300 \$20, 200, 200, 200, 200, 200, 200, 20						
Total						34, 489, 100
Coffee: Entered for consumption						1, 466, 800
Entered for consumption	<del></del>	<b>. 29, 876, 400</b>	19, 550, 900	21, 654, 600	<b>80,</b> 281, 700	35, 955, 900
Transit and re-export. 12, 448, 500 11, 463, 500 18, 257, 800 12, 911, 700 10, 518 Total 31, 652, 000 28, 525, 400 38, 542, 100 33, 755, 700 29, 625 Table fruits:  Entered for consumption 6, 890, 100 270, 200 289, 500 318, 100 280 Total 7, 160, 300 5, 905, 800 5, 674, 200 6, 648, 500 6, 523 Entered for consumption 6, 002, 300 4, 921, 500 5, 558, 400 7, 005, 900 6, 156 Transit and re-export 7, 469, 100 6, 562, 000 7, 758, 600 8, 839, 400 7, 604 Sugars, foreign:  Entered for consumption 11, 425, 600 8, 376, 200 12, 101, 100 10, 904, 500 115, 800 Transit and re-export 11, 888, 800 8, 492, 000 12, 101, 100 10, 904, 500 148, 204 Transit and re-export 1, 794, 900 1, 351, 000 2, 689, 700 1, 235, 200 1, 235, 200 Total 8, 144, 600 8, 176, 900 1, 351, 000 8, 221, 800 6, 890, 100 9, 900 Transit and re-export 1, 794, 900 1, 351, 000 8, 221, 800 6, 890, 100 9, 900 Transit and re-export 1, 794, 900 1, 351, 000 8, 221, 800 8, 125, 300 123, 100 100 1, 205, 200 100 1, 205, 200 1, 235, 200 1,						İ
Total						19, 107, 000
Table fiuits:     Entered for consumption						10, 518, 500
Entered for consumption		. 31, 652, 000	28, 525, 400	38, 542, 100	33, 755, 700	29, 625, 500
Transit and re-export						1
Total						6, 233, 900
Butter and cheese:       Entered for consumption       6, 002, 300       4, 921, 500       5, 558, 400       7, 005, 900       6, 156         Transit and re-export.       1, 466, 800       1, 640, 500       2, 200, 200       1, 833, 500       1, 467, 600         Sugars, foreign:       2, 200, 200       7, 758, 600       8, 839, 400       7, 604         Sugars, foreign:       11, 425, 600       8, 376, 200       11, 541, 400       10, 171, 100       13, 220         Transit and re-export.       463, 200       115, 800       559, 700       733, 400       984         Fish, sea:       Entered for consumption       6, 291, 800       5, 404, 000       5, 133, 800       5, 751, 400       6, 060         Transit and re-export.       77, 200       88, 600       135, 100       38, 600       77         Total       6, 369, 000       5, 442, 600       5, 288, 900       5, 790, 000       6, 137         Olive oil:       1, 794, 900       1, 351, 000       2, 682, 700       1, 235, 200       2, 500         Total       8, 144, 600       *5, 018, 000       *10, 904, 500       *8, 125, 300       *12, 408         Rice:       Entered for consumption       3, 319, 600       3, 107, 300       3, 454, 700       3, 454, 700       791					1	289, 500
Entered for consumption 6, 002, 300 1, 468, 800 7, 005, 900 1, 468, 800 7, 469, 100 6, 562, 000 7, 758, 600 8, 839, 400 7, 604 7, 604 7, 604 7, 604 8, 800 11, 468, 800 11, 468, 800 7, 758, 600 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 7, 604 8, 839, 400 10, 171, 100 10, 171, 100 10, 904, 500 115, 800 12, 101, 100 10, 904, 500 14, 204 8, 100, 100, 100, 100, 100, 100, 100, 1		7, 160, 300	5, 905, 800	5, 674, 200	6, 648, 500	6, 523, 400
Transit and re-export. 1, 468, 800 7, 469, 100 6, 562, 000 7, 758, 600 8, 839, 400 7, 604  Sugars, foreign:  Entered for consumption 11, 425, 600 463, 200 115, 800 559, 700 733, 400 984  Total 1, 888, 800 8, 492, 000 12, 101, 100 10, 904, 500 14, 204  Fish. sea:  Entered for consumption 6, 291, 800 77, 200 38, 600 133, 100 38, 600 77  Total 6, 869, 000 5, 442, 600 5, 268, 900 5, 790, 000 6, 137  Olive oil:  Entered for consumption 6, 349, 700 3, 667, 000 8, 221, 800 6, 890, 100 9, 900  Transit and re-export 1, 794, 900 1, 351, 000 2, 682, 700 1, 235, 200 2, 509  Total 8, 144, 600 85, 018, 000 81, 251, 800 88, 125, 300 81, 240  Rice:  Entered for consumption 3, 319, 600 75, 500 045, 700 617, 600 791  Total 8, 144, 600 849, 200 675, 500 045, 700 617, 600 791  Total 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 097  Sugars, French colonial:  Entered for consumption 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 097						
Total						6, 156, 700
Sugara, foreign:       11, 425, 600       8, 376, 200       11, 541, 400       10, 171, 100       13, 220         Transit and re-export.       463, 200       115, 800       559, 700       733, 400       984         Fish, sea:       Entered for consumption       6, 291, 800       5, 404, 000       5, 133, 800       5, 751, 400       6, 860         Transit and re-export.       6, 369, 000       5, 442, 600       5, 288, 900       5, 790, 000       6, 137         Olive oil:       6, 349, 700       1, 794, 900       1, 351, 000       2, 682, 700       1, 235, 200       2, 500         Total       8, 144, 600       75, 018, 000       10, 904, 500       12, 201, 100       9, 900         Rice:       8, 376, 200       10, 171, 100       10, 904, 500       14, 204         Rice:       8, 600       1, 704, 900       1, 351, 000       2, 682, 700       8, 200, 100       9, 900         Rice:       8, 144, 600       8, 144, 600       8, 107, 300       3, 145, 900       3, 454, 700       8, 376, 200       1, 235, 200       12, 500         Transit and re-export       3, 319, 600       3, 107, 300       3, 145, 900       3, 454, 700       700       701         Entered for consumption       849, 200       3, 782, 800						1, 447, 500
Entered for consumption 11, 425, 600 463, 200 115, 800 559, 700 733, 400 984  Total 11, 888, 800 8, 492, 000 12, 101, 100 10, 904, 500 14, 204  Fish. sea:  Entered for consumption 6, 291, 800 77, 200 88, 600 135, 100 38, 600 77  Total 6, 869, 000 5, 442, 600 5, 268, 900 5, 790, 000 6, 137  Olive oil:  Entered for consumption 6, 349, 700 70 70 7041 7041 704 705  Rice:  Entered for consumption 70, 200 8, 221, 800 6, 890, 100 9, 900  Transit and re-export 70, 200 70, 3		7, 469, 100	6, 562, 900	7, 758, 600	8, 839, 400	7, 604, 200
Transit and re-export. 463, 200 115, 800 559, 700 733, 400 1984  Total 11, 888, 800 8, 492, 000 12, 101, 100 10, 904, 500 14, 204  Fish. ses:  Entered for consumption 6, 291, 800 77, 200 38, 600 125, 100 38, 600 77  Total 6, 869, 000 5, 442, 600 5, 268, 900 5, 790, 000 6, 137  Olive oil:  Entered for consumption 6, 349, 700 1, 351, 000 2, 682, 700 1, 235, 200 2, 500  Total 8, 144, 600 75, 018, 000 70  Rice:  Entered for consumption 3, 319, 600 77  Total 8, 144, 600 75, 500 945, 700 617, 600 791  Total 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 0972		11 405 000	0.000.000		1	
Total						13, 220, 500
Fish, sea:     Entered for consumption		403, 200				984, 300
Entered for consumption 6, 291, 800 77, 200 88, 600 135, 100 38, 600 77  Total 6, 369, 000 5, 442, 600 5, 268, 900 5, 790, 000 6, 137  Olive oil:  Entered for consumption 6, 349, 700 3, 667, 000 8, 221, 800 6, 890, 100 9, 900  Transit and re-export 7, 794, 900 1, 351, 000 2, 682, 700 1, 235, 200 2, 509  Total 8, 144, 600 8, 107, 300 3, 145, 900 3, 454, 700 791  Total 8, 146, 800 3, 782, 800 4, 091, 600 4, 072, 300 4, 091  Sugars, French colonial:  Entered for consumption 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 097		11, 888, 800	8, 492, 000	12, 101, 100	10, 904, 500	14, 204, 800
Transit and re-export. 77, 200 88, 600 135, 100 38, 600 5, 790, 000 6, 369, 000 5, 442, 600 5, 268, 900 5, 790, 000 6, 137 700		6 601 000	F 404 000	7 700 000		
Total 6, 369, 000 5, 442, 600 5, 268, 900 5, 790, 000 6, 137 Olive oil:  Entered for consumption 6, 349, 700 3, 667, 000 8, 221, 800 6, 890, 100 9, 900 Transit and re-export 1, 794, 900 1, 351, 000 2, 682, 700 1, 235, 200 2, 509 701		0, 291, 800				6, 060, 200
Olive oil:						77, 200
Entered for consumption 0, 349, 700 3, 667, 000 8, 221, 800 6, 890, 100 9, 900 Transit and re-export 1, 794, 900 1, 351, 000 2, 682, 700 1, 235, 200 2, 509 Total 8, 144, 600 *5, 018, 000 *10, 904, 500 *8, 125, 300 *12, 409  Rice: Entered for consumption 3, 319, 600 575, 500 945, 700 617, 600 791 Total 4, 168, 800 3, 782, 800 4, 091, 600 4, 072, 300 4, 091 Sugars, French colonial: Entered for consumption 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 097		0, 309, 000	5, 442, 600	5, 268, 900	5, 790, 000	6, 137, 400
Transit and re-export. 1, 794, 900 1, 351, 000 2, 682, 700 1, 235, 200 2, 509 Total 8, 144, 600 *5, 018, 000 *10, 904, 500 *8, 125, 300 *12, 409 Rice: Entered for consumption 3, 319, 600 575, 500 945, 700 617, 600 791 Total 4, 168, 800 3, 782, 800 4, 091, 600 4, 072, 300 4, 091 Sugars, French colonial: Entered for consumption 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 097		0 240 700	2 667 000	1 000 000	0 000 100	0 000 000
Total						9, 900, 900
Rice:     Entered for consumption						2, 509, 000
Entered for consumption 3, 319, 600 3, 107, 300 3, 145, 900 3, 454, 700 849, 200 675, 500 945, 700 617, 600 791 Total 4, 168, 800 3, 782, 800 4, 091, 600 4, 072, 300 4, 091 Entered for consumption 9, 900, 900 9, 341, 200 10, 923, 800 8, 685, 000 11, 097	•	-, -8, 114, 000	-2, 018, 000	110, 904, 500	78, 125, 300	<b>*12, 409, 900</b>
Transit and re-export		9 910 000	9 107 900	10 142 000	0 454 500	0 000 000
Total					1	3, 300, 300
Sugars, French colonial: Entered for consumption						791, 800
Entered for consumption		2, 100, 500	3, 102, 000	4, 031, 000	4, 072, 300	4, 001, <b>6</b> 00
		1 <b>0 000 000</b>	0 241 000	10 000 000		11 000 000
I I MININE MANUAL TOPO A DEPOS CONTRACTOR AND AND AND AND AND AND AND AND AND AND				10, 923, 500		11, 097, 500
				10 000 000	482,500	11, 007 500

\*Including oil from

FRANCE-Continued.

## by countries—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<b>Dollars.</b> 178, 700 19, 800	<b>Dollars.</b> 154, 400 88, 600	<b>Dollars.</b> 281, 600 19, 300	Dollars. 154, 400 19, 300	<b>Dollars.</b> 96, 500	Dollars. 96, 500 19, 800	Dollars. 77, 200	Dollare. 178, 700 19, 800
193, 000	193, 000	250, 900	178, 700	<b>96</b> , 500	115, 800	77, 200 19, 800	193, 000
19, 300 19, 300	19, 300 19, 300		48000			19, 800	
5, 114, 500 6, 485, 100 11, 599, 600	5, <b>693</b> , 500 8, 202, 500 13, 896, 000	4, 535, 500 7, 218, 200 11, 758, 700	4, 091, 600 10, 016, 700 14, 108, 300	4, 632, 000 10, 151, 800 14, 783, 800	5, 056, 600 7, 179, 600 12, 236, 200	5, 782, 100 5, 867, 200 11, 599, 300	5, 944, 400 7, 214, 600 18, 159, 000
772, 000 772, 000	468, 200 468, 200	7 <b>52,</b> 700 <b></b>	926, 400 19, 800 945, 700	772, 000 77, 200 849, 200	926, 400 1, 022, 900 1, 949, 300	1, 158, 000 696, 900 1, 794, 900	1, 406, 800 1, 717, 700 8, 184, 500
613, 682, 100 179, 876, 000 798, 558, 109	628, 640, 900 200, 891, 900 824, 032, 800	869, 804, 700 220, 927, 100 890, 231, 800	687, 869, 500 224, 862, 500 911, 782, 000		666, 216, 700 214, 191, 400 880, 406, 100	623, 972, 500 190, 179, 000 814, 151, 500	596, 175, 600 167, 178, 900 762, 849, 500

#### articles imported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dotlars.	Dollars.	<b>Dollars</b> . 44, 872, 500 8, 876, 200
108, 215, 100	165, 478, 200	152, 180, 500	100, 340, 700	96, 968, 200	72, 875, 000	69, 518, 600	
15, 420, 700	16, 057, 600	18, 374, 900	12, 467, 800	18, 663, 100	17, 794, 600	2, 412, 500	
123, 635, 800	181, 535, 800	165, 565, 400	112, 808, 500	115, 626, 300	90, 169, 600	71, 981, 100	53, 248, 700
11, 425, 600	23, 295, 100	60, 582, 700	70, 232, 700	60, 775, 700	72, 683, 800	66, 449, 900	74, 999, 800
1, 003, 600	1, 158, 000	1, 351, 000	2, 277, 400	2, 007, 200	1, 177, 800	1, 838, 500	1, 486, 100
12, 429, 200	24, 453, 100	61, 988, 700	72, 510, 100	62, 782, 900	78, 861, 109	68, 288, 400	76, 485, 900
45, 991, 900	37, 828, 000	34, 199, 600	27, 849, 900	34, 481, 200	86, 052, 400	29, 181, 600	25, 591, 800
1, 930, 000	1, 003, 600	783, 400	598, 300	694, 800	636, 900	598, 300	540, 400
47, 921, 900	38, 831, 600	34, 938, 000	28, 448, 200	35, 126, 000	86, 689, 800	29, 779, 900	26, 132, 200
19, 581, 600	19, 512, 900	18, 826, 80 )	18, 856, 100	16, 501, 500	18, 815, 700	15, 999, 700	15, 440, 000
12, 081, 800	14, 957, 500	10, 576, 400	21, 098, 160	11, 830, 900	19, 478, 700	11, 174, 700	14, 571, 500
31, 613, 400	84, 469, 800	29, 413, 200	39, 949, 200	28, 832, 400	87, 789, 400	27, 174, 400	80, 011, 500
6, 619, 900	15, 227, 000	19, 724, 600	18, 915, 300	13, 162, 600	15, 478, 600	15, 594, 400	26, 498, 900
308, 800	406, 000	540, 400	810, 600	849, 200	685, 200	1, 812, 400	1, 196, 600
6, 928, 700	15, 638, 000	20, 265, 000	14, 725, 900	14, 011, 800	16, 163, 800	16, 906, 800	27, 695, 500
6, 465, 500	7, 885, 800	8, 511, 300	8, 588, 500	8, 646, 400	8, 858, 700	8, 279, 700	8, 009, 500
1, 775, 600	2, 644, 100	8, 068, 000	3, 585, 800	8, 030, 100	2, 759, 900	2, 721, 800	2, 624, 800
8, 241, 100	10, 479, 900	11, 599, 300	12, 174, 800	11, 676, 500	11, 618, 600	11, 001, 000	10, 634, 800
8, 511, 300	7, 681, 400	16, u96, 200	16, 462, 900	15, 980, 400	11, 155, 400	9, 841, 100	12, 467, 800
849, 200	579, 000	907, 100	463, 200	1, 273, 800	40, 000	687, 000	281, 600
9, 360, 500	8, 260, 400	17, 003, 800	16, 926, 100	17, 254, 200	11, 195, 400	9, 978, 100	12, 699, 400
6, 137, 400	1	5, 500, 500	6, 272, 500	7, 005, 900	8, 048, 100	8, 028, 900	9, 476, 300
96, 500		77, 200	115, 800	19, 300	193, 000	829, 900	945, 700
6, 233, 900		5, 577, 700	6, 388, 300	7, 025, 200	8, 241, 100	8, 858, 700	10, 422, 000
6, 426, 900 2, 854, 600	9, 927, 200	5, 133, 800	6, 581, 300 2, 238, 800	4, 881, 100 1, 870, 300	7, 874, 400 2, 626, 200	5, 654, 900 1, 466, 800	5, 500, 500 2, 586, 200
*8, 781, 500	9, 927, 200	5, 133, 800	8, 820, 100	5, 751, 400	10, 500, 600	7, 121, 700	8, 086, 700
3, 126, 600	4, 226, 700	4, 110, 900	4, 496, 900	6, 446, 200	7, 777, 900	5, 751, 400	4, 207, 400
1, 080, 800	1, 061, 500	1, 831, 700	1, 080, 800	1, 061, 500	1, 293, 100	1, 285, 200	907, 100
4, 207, 400	5, 288, 200	5, 442, 600	5, 577, 700	7, 507, 700	9, 071, 000	6, 986, 600	5, 114, 500
9, 785, 100	8, 762, 200	9, 090, 800	8, 916, 600 733, 400	10, 672, 900 501, 800	7, 853, 300 231, 600	5, 288, 200 1, 158, 000	8, 028, 800 656, 200
9, 785, 100	424, 600 9, 186, 800	135, 100 9, 225, 400	9, 650, 000	11, 174, 700	7, 584, 900	6, 446, 200	8, 085, 000

seeds and grains.

#### FRANCE-Continued.

#### Value of principal

Articles.	1879.	1874.	1875.	1876.	1877.
Alimentary products—Continued.					
ACBO:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Entered for consumption	. 2, 180, 900	2, 108, 700	2, 412, 500	8, 319, 600	3, 800, 800
Transit and re-export		694, 800	714, 100	1,621,200	1,851,000
Totalrandy and spirits:	. 8, 184, 500	2, 798, 500	3, 126. 600	4, 940, 800	4, 651, 800
Entered for consumption	1, 196, 600	1, 428, 200	1, 524, 700	1, 568, 800	2, 123, 000
Transit and re-export	000	714, 100	270, 200	521, 100	1, 119, 400
Total	1, 582, 600	2, 142, 800	1, 794, 900	2, 084, 400	8, 242, 400
eata:					
Entered for consumption		3, 551, 200 193, 000	3, 454, 700 366, 700	5, 654, 900 579, 000	8, <b>200</b> , 400
Transit and re-export	154, 400	3, 744, 200	3, 821, 400	6, 233, 900	540, 400 8, 800, 800
rease of all sorts:	0,000,000	0, 112, 200	, 55, 55, 155	4,200,000	3,000,000
Entered for consumption		5, 384, 700	4, 419, 700	9, 476, 300	10, 151, 80
Transit and re-export	. 289, 500	154, 400	96, 500	280, 200	366,70
Total	. 9, 225, 400	5, 539, 100	4, 516, 290	9, 756, 500	10, 518, 50
egumes, and flour of:  Entered for consumption	2, 123, 000	1, 235, 200	1, 601, 900	6, 099, 400	5, 018, 00
Transit and re-export		19, 300	38, 600	77, 200	57, 90
Total	2, 123, 000	1, 254, 500	1, 640, 500	6, 176, 600	5, 075, 90
otal, elimentary products:				' '	1
Entered for consumption		160, 122, 800		176, 576, 300	
Transit and re-export	. 47, 149, 900 . 216, 758, 300	29, 785, 700 189, 908, 50 <del>0</del>	<b>88,001,70</b> J 172,561,300	83, 736, 400 210, 812, 700	82, 115, 20
1 000	. 210, 100, 000	1200, 500, 500	112, 501, 500	310, 01 <i>2</i> , 100	216, 179, 30
Products necessary to industry.	i	!	<u> </u>		·
7ool:					
Entered for consumption	. 62, 840, 800	60, 323, 000	64, 288, 300	53, 499, 600	60, 891, 50
Transit and re-export	849, 200		656, 200	1, 698, 400	791, 80
Total	. 63, 690, 000	60, 393, 300	64, 944, 500	55, 198, 000	61, 682, 80
lk :  Entered for consumption	. 67, 935, 000	62, 208, 900	63, 709, 300	104, 953, 400	43, 656, 60
Transit and re-export		16, 752, 400	14, 455, 700	23, 853, 000	14, 75 <b>9</b> , 80
Total		78, 956, 800	78, 165, 000	128, 306, 400	58, 415, 90
food, common:	1				
Entered for consumption		84, 083, 800	81, 671, 300	39, 063, 200	39, 872, 00
Transit and re-export	. 38, 600 . 30, 204, 500	38, 600 34, 122, 400	38, 600 81, 709, 900	96, 500 <b>39</b> , 15 <b>9</b> , 700	501, 80 <b>39</b> , 87 <b>3</b> , 80
otton:	. 30, 202, 000	01, 122, 100	01, 100, 500	oo, 100, 100	00,010,00
Entered for consumption	. 35, 840, 100	46, 262, 100	42, 710, 900	44, 235, 600	37, 770, 10
Transit and re-export	. 2, 952, 900	2, 393, 200	2, 854, 600	3, 118, 000	8, 435, 40
Total	. 38, 798, 000	48, 655, 300	45, 065, 500	47, 853, 600	41, 205, 50
ides and skins: Entered for consumption	. 81, 246, 700	35, 666, 400	39, 236, 900	32, 539, 800	29, 451, 80
Transit and re-export		2, 277, 400	1, 910, 700	1, 712, 400	1, 544, 00
Total		37, 943, 800	41, 147, 600	34, 252, 200	30, 995, 80
oal and coke:		1 ' '	1		' '
Entered for consumption		84, 797, 900	85, 857, 600	83, 408, 800	30, 783, 50
Trausit and re-export	1, 812, 400	1, 215, 900	1, 100, 300	1, 466, 500	1, 351, 00
Total lax:	- 48, 114, 900	36, 013, 800	36, 457, 900	34, 875, 100	32, 184, 50
Entered for consumption	. 14, 532, 900	13, 162, 600	17, 466, 500	9, 804, 400	18, 721, 00
Transit and re-export		88, 600	154, 400	19, 300	77 20
Total	. 14, 803, 100	13, 201, 200	17, 620, 900	9, 823, 700	18, 798 20
leaginous fruits and grains:	00 400 000	1 10 200 000	04 054 000	00 000 000	00 100 00
Entered for consumption		1 215 010	24, 954, 900 1, 312, 400	22, 002, 000 2×9, 500	25, 476, 00
Transit and re-export	772, 000	1, 215, 900 20, 766, 800	26, 267, 300	22, 291, 500	1, 196, 60 <b>26</b> , 672, 60
il from grain, fruit, &c. (entered			,, 500		
with olive oil):	•		1	1	
Entered for consumption					<b> </b>
Transit and re-export	1				
Total	-		1		
opper: Entered for consumption	8, 511, 300	9, 341, 200	8 591 900	10, 769, 400	7, 090, 20
Transit and re-export	772,000	328, 100	546, 400	1, 061, 500	1, 247, 40
Total	9, 283, 300	9, 669, 300	7, 121, 700	11, 830, 900	8, 837, 60
eaf tobacco:		1		} '	
Entered for consumption	. 5, 172, 400	6, 272, 500	4, 072, 300	6, 195, 300	5, 693, 50
Transit and re-export	2, 837, 100	250, 900	1, 698, 400	1, 563, 300	2, 084, 40

FRANCE-Continued.

articles imported—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 4, 265, 800 866, 700 4, 632, 000	<b>Dollars.</b> 4, 747, 800 8, 768, 500 8, 511, 300	Dollars. 8, 784, 200 2, 869, 000 6, 153, 200		<b>Dollars.</b> 8, 980, 000 2, 065, 100 5, 925, 100	Dollars. 5, 095, 200 1, 100, 100 6, 195, 800	Dollars. 4, 842, 500 1, 832, 800 6, 195, 800	Dollars. 4, 598, 400 1, 215, 900 5, 809, 300
2, 856, 400	4, 091, 600	5, 249, 600	4, 998, 700	5, 461, 900	4,072, 800	4, 220, 700	4, 458, 800
2, 044, 000	2, 644, 100	3, 010, 800	2, 123, 000	2, 854, 600	2,547, 600	1, 158, 000	1, 717, 700
4, 980, 400	6, 735, 700	8, 260, 400	7, 121, 700	7, 816, 500	6,619, 900	5, 884 700	6, 176, 000
12, 834, 500	11, 830, 900	13, 452, 100	10, 672, 900	6, 735, 700	5, 983, 009	4, 767, 100	6, 581, 309
1, 052, 200	675, 500	1, 022, 900	849, 200	1, 061, 500	636, 900	617, 600	829, 900
13, 886, 700	12, 506, 400	14, 475, 000	11, 522, 100	7, 797, 200	6, 619, 900	5, 384, 700	7, 411, 200
14, 205, 900	11, 599, 300	10, 750, 100	10, 788, 700	7, 102, 400	10, 615, 000	4, 709, 200	7, <b>6</b> 05, 900
883, 900	714, 100	791, 300	738, 400	694, 800	714, 100	501, 200	501, 8::0
14, 590, 800	12, 318, 400	11, 541, 400	11, 522, 100	7, 797, 200	11, 829, 100	5, 211, 000	7, 507, 700
4, 226, 700	7, 372, 600	6, 637, 800	6, 136, 700	5, 963, 700	5, 867, 200	3, 896, 800	3, 821, 400
115, 800	115, 800	271, 600	77, 200	212, 300	212, 300	57, 900	115, 800
4, 342, 500	7, 488, 400	6, 909, 400	6, 233, 900	6, 176, 000	6, 079, 500	3, 454, 700	3, 937, 209
270, 626, 700	344, 986, 800	373, 841, 000	319, 183, 400	304, 090, 800	297, 606, 000	260, 580, 600	261, 553, 600
40, 864, 200	46, 202, 800	89, 580, 600	51, 197, 100	47, 690, 800	52, 122, 500	29, 567, 700	88, 503, 500
311, 490, 900	391, 249, 600	413, 421, 800	370, 880, 500	351, 781, 100	849, 728, 500	290, 098, 300	300, 057, 100
64, 577, 800	55, 719, 100	71, 448, 600	58, 729, 900	58, 498, 300	63, 709, 300	64, 095, 300	53, 845, 200
694, 800	1, 100, 100	1, 466, 800	938, 000	1, 177, 300	1, 659, 800	1, 987, 900	2, 005, 100
65, 272, 600	56, 819, 200	72, 915, 400	59, 687, 900	59, 675, <b>60</b> 0	65, 369, 100	66, 083, 260	55, 410, 800
61, 950, 000	61, 065, 200	62, 184, 600	75, 482, 800	61, 412, 600	59, 096, 600	51, 839, 800	40, 800, 200
17, 488, 900	14, 532, 900	14, 861, 000	18, 663, 100	18, 894, 200	9, 476, 300	12, 776, 600	6, 426, 900
79, 438, 800	75, 598, 100	77, 045, 600	94, 145, 400	74, 806, 800	68, 572, 900	64, 616, 400	47, 227, 100
42, 575, 800	42, 672, 300	53, 654, 000	40, 800, 200	44, 081, 200	41, 996, 600	37, 461, 300	30, 667, 700
115, 800	115, 800	193, 000	115, 800	173, 700	173, 700	185, 100	154, 400
42, 691, 600	42, 788, 100	53, 847, 000	40, 916, 000	44, 254, 900	42, 170, 500	37, 596, 400	30, 822, 100
37, 808, 700	89, 449, 200	41, 572, 200	43, 502, 200	40, 877, 460	39, 584, 300	82, 889, 200	84, 469, 800
3, 010, 800	3, 493, 800	6, 214, 600	4, 786, 400	4, 700, 200	2, 972, 200	4, 439, 000	2, 566, 900
40, 819, 500	42, 942, 500	47, 786, 800	48, 268, 600	45, 586, 600	42, 556, 500	87, 826, 200	87, 086, 700
29, 200, 900	38, 832, 900 -	32, 810, 000	31, 266, 000	33, 003, 000	37, 075, 300	33, 871, 500	36, 226, 100
1, 870, 800	1, 831, 700	1, 698, 400	1, 930, 000	1, 891, 400	1, 949, 809	1, 852, 800	2, 373, 900
30, 571, 200	35, 164, 600	34, 508, 400	33, 196, 000	34, 894, 400	39, 024, 600	85, 724, 300	38, 600, 000
27, 618, 300	28, 081, 500	32, 829, 300	32, 945, 100	86, 496, 300	32, 308, 200	32, 385, 400	28, 178, 000
1, 196, 600	1, 274, 800	1, 737, 000	1, G17, 700	2, 065, 100	1, 968, 600	1, 698, 400	1, 708, 400
28, 814, 900	29, 356, 300	84, 566, 300	84, 562, 800	38, 561, 400	34, 276, 800	34, 063, 800	29, 886, 400
13, 181, 900	13, 355, 600	12, 564, 300	18, 471, 400	11, 522, 100	10, 499, 200	12, 318, 400	18, 085, 400
19, 800	57, 900	77, 200	178, 700	2, 026, 500	193, 000	289, 500	96, 500
18, 201, 200	18, 413, 500	12, 641, 500	13, 645, 100	13, 548, 600	10, 692, 200	12, 602, 900	13, 181, 900
26, 596, 000	23, 584, 600	29, 631, 300	83, 427, 600	28, 776, 300	32, 211, 700	31, 922, 200	35, 087, 400
1, 008, 000	907, 100	553, 900	579, 000	636, 900	868, 500	636, 900	926, 400
27, 599, 000	24, 491, 700	80, 185, 200	84, 006, 600	29, 418, 200	33, 080, 200	82, 559, 100	36, 013, 800
	4, 516, 290	4, 882, 900	4, 998, 700	4, 265, 800	6, 137, 400	5, 192, 400	83, 461, 900
	2, 065, 100	1, 756, 300	2, 142, 300	1, 505, 400	2, 065, 100	2, 296, 700	2, 472, 500
	6, 581, 800	6, 689, 200	7, 141, 000	5, 770, 700	8, 202, 500	7, 469, 100	7, 874, 400
7, 834, 000	6, 812, 900	7, 391, 900	8, 530, 600	8, 318, 300	9, 495, 600	6, <b>869</b> , 000	5, 809, 800
424, 600	1, 831, 700	686, 900	1, 447, 500	1, 910, 700	887, 800	1, 042, 200	714, 100
7, 758, 600	8, 144, 600	8, 028, 800	9, 978, 100	10, 229, 000	10, 383, 400	7, 411, 200	<b>6</b> , 523, 400
3, 840, 700	5, 539, 100	4, 689, 900	5, 685, 600	5, 288, 200	6, 812, 900	5, 944, 400	5, 790, 000
2, 219, 500	849, 200	1, 447, 500	2, 123, 000	965, 000	2, 663, 400	1, 215, 900	2, 451, 100
6, 000, 200	6, 838, 300	6, 187, 400	7, 758, 600	6, 253, 200	9, 476, 800	7, 160, 800	8, 241, 100

BRANCE-Continued.

Value of principal

Articles.	1873.	1674.	. 1875.	1876.	1877.
Products necessary to industry—Cont'd.					
Linerals of all sorts:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Entered for consumption	6, 562, 000	7, 102, 400	7, 044, 500	6, 870, 800	8, 704, 300
Transit and re-export	96, 500	96, 500	212, 300	154, 400	19, 30
Total Petroleum :	6, 658, 500	7, 198, 900	7, 256, 800	7, 025, 200	8, 723, 60
Entered for consumption	8, 800, 300	2, 663, 400	2, 586, 200	4, 670, 600	5, 884, 70
Transit and re-export		808, 800	96, 500	173, 700	617, 60
Total	8, 667, 000	2, 972, 200	2, 682, 700	4, 844, 800	0, 002, 30
luano and other manures:	7 604 900	7 959 900	E 720 100	7 OFF 100	7 018 EM
Entered for consumption		7, 853, 300 19, 300	5, 732, 100 154, 400	7, 855, 100	7, 816, 50 193, 00
Total	7, 777, 900	7, 872, 600	5, 896, 500	7, 855, 100	8, 009, 50
ndigo:					
Entered for consumption		4, 265, 300		5, 153, 100	3, 609, 10
Transit and export		984, 300 5, 249, 600	656, 200 4, 419, 700	521, 100 5, <b>674</b> , 200	405, 30 4, 014, 40
Totalron and steel:	0, 200, 200	0, 240, 000	4, 218, 100	0, 013, 200	8 2,072,20
Entered for consumption	2, 393, 200	2, 991, 500	2, 702, 000	2, 663, 400	2, 354, 60
Transit and re-export	. 2, 200, 200	2, 739, 900	2, 296, 700	2, 412, 500	1, 968, 60
Total.	4, 593, 400	5, 751, 400	4, 998, 700	5, 075, 900	4, 323, 20
'ine woods :  Entered for consumption	2, 398, 200	2, 586, 200	4, 207, 400	4, 058, 000	3, 261, 70
Transit and re-export		39, 800	96, 500	154, 400	38, 60
Total	2, 605, 500	2, 625, 500	4, 303, 900	4, 207, 400	3, 300, 30
Ioraes:		}	' '		
Entered for consumption.	. 2, 509, 000	2, 470, 400	8, 377, 500	<b>8</b> , 551, 200	8, 589, 80
Transit and re-export Total	. 347, 400	347, 400		308, 800	281, 60
Total	2, 856, 400	2, 817, 800	3, 995, 100	8, 860, 000	8, 821, 40
Entered for consumption	2, 798, 500	2, 143, 300	2, 373, 900	3, 493, 300	8, 454, 70
Transit and re-export	328, 100	808, 800	463, 200	270, 200	405, 80
Total	. 8, 126, 600	2, 451, 100	2, 837, 100	3, 763, 500	8, 860, 00
esd:	9 600 400	4 961 900	4 007 400	4 700 000	4 477 60
Entered for consumption	1 10 000	4, 361, 800 96, 500	4, 207, 400	4, 709, 200 38, 600	4, 477, 60 77, 20
Total	8, 647, 700	4, 458, 800	4, 207, 400	4, 747, 800	4, 554, 80
Sinc:				' '	
Entered for consumption	3, 587, 800	2, 817, 800		8, 184, 500	3, 435, 40
Transit and re-export	. 19, 300 8, 609, 100	57, 900	57, 900	57, 900 3, 242, 400	88,60
Total in, orade:	0, 000, 100	2, 875, 700	8, 223, 100	3, 232, 400	8, 474, 00
Entered for consumption	. 2, 296, 700	1, 910, 700	2, 835, 800	2, 180, 900	1, 659, 80
Transit and re-export		88, 600	19,800	19, 300	57, 90
Total	. 2, 316, 000	1, 949, 300	2, 354, 600	2, 200, 200	1, 717, 70
Sastings, rough: Entered for consumption	1, 812, 400	714, 100	1, 293, 100	1, 312, 400	1, 331, 70
Transit and re-export		2, 702, 000	1, 930, 000	1,601,900	1, 254, 50
Total	3, 917, 900	3, 416, 100	8, 223, 100	2, 914, 300	2, 586, 20
ute:					
Entered for consumption	. 2, 933, 600	2,007,200	2, 817, 800	2, 412, 500	2, 206, 70
Transit and re-export Total	2, 533, 600	115, 800 2, 123, 000	2, 817, 800	2, 412, 500	238, 60 2, 535, 30
itrates of sods and potash :	2,000,000	2, 220, 000	2, 011, 000	2, 112, 000	2,000,00
Entered for consumption	. 3, 474, 000	8, 396, 800	4, 651, 300	4, 400, 400	5, 249, 60
Transit and re-export	. 38, 600	••••••	19, 300	19, 300	57, 90
Total	. 3, 512, 600	<b>8, 396,</b> 800	4, 670, 600	4, 419, 700	5, 307, 50
lops: Entered for consumption	694, 800	926, 400	2, 933, 600	4, 998, 700	8, 860, 00
Transit and re-export		77, 200	212, 300	482, 500	135, 10
Total	GEO. GAA	1, 003, 600		5, 481, 200	3, 995, 10
rains, seed:		200	4 005 000		
Entered for consumption	. 752, 700	829, 900	1, 235, 200	1, 987, 900	1, 659, 80
Transit and re-export  Total		38, 600 868, 500	38, 600 1, 273, 800	77, 200 2, 065, 100	38, 60 1, 698, 40
alphur:	020, 500	501, 500	1, 210, 600	2, 000, 100	2, 000, 20
Entered for consumption	1, 544, 000	1, 544, 000	1, 408, 900	1, 833, 500	1, 408, 90
Transit and re-export	.				
Total	1, 544, 000	1, 544, 000	1, 408, 900	1, 833, 500	1, 408, 90
affron :  Entered for consumption	579,000	808, 800	482, 500	308, 800	405, 30
Transit and re-export.	791, 300	656, 200	868, 500	501, 800	868, 50
Total	1, 270, 300	965, 000	1, 851, 000	810, 600	1, 273, 80
otal products necessary to industry:				,	1
Makanad Kan samunahkan	379, 920, 500	1271 758 600	386, 366, 700	422 110 200	862, 866, 40
Entered for consumption	36, 891, 600		81, 961, 000		88, 684, 60

FMANOR-Continued.

articles imported—Continued.

1878. ·	1879.	1860.	1881.	1882.	1883.	1884.	1885.
Dollars. 5, 886, 500 96, 500	Dollars. 5, 558, 400	Dollars. 6, 909, 400 57, 900	Dollars. 7, 025, 200 212, 300	Dollare. 7, 816, 500 96, 500	Dollars. 7, 507, 700 38, 600	Dollars. 6, 446, 200 57, 900	Dollars. 6, 677, 80 135, 10
5, 983, 000	5, 558, 400	6, 967, 800	7, 237, 500	7, 918, 000	7, 546, 300	6, 504, 100	6, 812, 90
4, 091, 600 173, 700 4, 265, 300	3, 068, 700 112, 300 3, 181, 000	2, 914, 300 559, 700 3, 474, 000	4, 439, 030 579, 000 5, 018, <b>00</b> 0	3, 937, 200 112, 300 4, 049, 500	4, 747, 800 636, 900 5, 384, 700	5, 211, 000 738, 400 5, 944, 400	4, 458, 30 886, 00 4, 844, 30
3, 898, 600 289, 500 4, 188, 100	6, 330, 400 96, 500 6, 426, 900	4, 033, 700 173, 700 4, 207, 400	2, 277, 400 77, 200 2, 854, 600	2, 219, 500 88, 600 2, 258, 100	1, 872, 100 1, 872, 100	5, 616, 800 5, 616, 300	2, 161, 60 88, 60 2, 200, 20
6, 349, 700 328, 100 6, 677, 800	4, 921, 500 328, 100 5, 219, 600	4, 180, 200 636, 900 4, 767, 100	4, 767, 100 444, 900 5, 212, 000	5, 114, 500 405, 300 5, 519, 800	4, 593, 400 405, 300 4. 998, 700	4, 689, 900 675, 500 5, 865, 400	5, 884, 70 738, 40 6, 118, 10
3, 721, 800 1, 930, 000 4, 651, 300	2, 740, 600 2, 065, 100 4, 805, 700	3, 030, 100 2, 378, 900 5, 404, 000	4, 805, 700 2, 895, 000 7, 700, 700	5, 230, 300 3, 855, 200 8, 585, 500	8, 744, 200 2, 895, 000 6, 639, 200	2, 624, 800 2, 605, 500 5, 280, 300	2, 084, 40 1, 775, 60 8, 860, 00
3, 126, 600 38, 600 3, 165, 200	4, 439, 000 57, 900 4, 496, 900	4, 632, 00 77, 200 4, 700, 200	4, 921, 500 115, 800 5 037, 300	5, 461, 900 96, 500 5, 558, 400	5, 442, 600 185, 100 5, 577, 700	4, 808, 900 96, 500 4, 400, 400	4, <b>6</b> 70, 60 57, 90 4, 728, 50
4, 554, 800 270, 200 4, 825, 000	6, 928, 700 443, 900 7, 372, 600	6, 772, 900 194, 400 6, 967, 300	5, 963, 700 347, 400 6, 311, 100	5, 558, 400 424, 600 5, 983, 000	5, 153, 100 270, 200 5, 423, 800	3, 898, 600 173, 700 4, 072, 300	8, 145, 90 154, 40 8, 800, 80
3, 126, 600 598, 300 3, 724, 900	3, <b>396</b> , 800 656, 200 4, 053, 000	2, 354, 600 714, 100 3, 068, 700	8, 667, 000 926, 400 4, 593, 400	3, 203, 800 829, 900 4, 033, 700	8, 165, 200 1, 003, 600 4, 168, 800	8, 126, 600 829, 900 8, 956, 500	2, 779, 20 1, 158, 00 8, 987, 20
3, 840, 700 57, 900 3, 898, 600	3, 705, 600 88, 600 3, 744, 200	3, 744, 200 19, 300 3, 763, 500	8, 917, 900 57, 900 3, 975, 800	4, 091, 600 115, 800 4, 207, 400	3, 860, 900 57, 900 8, 917, 900	2, 721, 300 19, 860 2, 740, 600	8, 145, 90 8, 145, 90
2, 702, 000 2, 702, 000	3, 010, 800 38, 000 3, 049, 400	2, 644, 100 38, 600 2, 682, 700	8, 165, 200 8, 165, 200	2, 547, 600 88, 600 2, 586, 200	2, 663, 400 57, 900 2, 721, 800	2, 547, 600 57, 900 2, 605, 500	2, 489, 70 57, 90 2, 547, 60
1, 737, 000 96, 500 1, 833, 500	1, 758, 800 07, 900 1, 814, 200	2, 258, 100 19, 800 2, 277, 400	2, 624, 800 77, 200 2, 702, 000	2, 644, 100 88, 600 2, 682, 700	2, 837, 100 173, 700 3, 010, 800	2, 451, 100 115, 800 2, 566, 900	2, 238, 80 77, 20 2, 316, 00
1, 100, 100 887, 800 1, 987, 900	926, 400 849, 200 1, 775, 600	1, 003, 600 1, 408, 900 2, 412, 500	2, 566, 900 1, 119, 400 3, 686, 300	3, 010, 800 907, 100 3, 917, 900	8, 088, 000 926, 400 4, 014, 400	1, 582, 600 963, 000 2, 547, 600	965, 00 984, 30 1, 949, 86
1, 930, 000 19, 300 1, 949, 300	3, 896, 800 19, 800 3, 416, 100	2, 759, 900 2, 759, 900	2, 798, 500 88, 000 2, 837, 100	2, 933, 600 19, 300 2, 952, 900	3, 647, 700 38, 600 8, 686, 300	2, 277, 400 38, 600 2, 316, 000	2, 412, 50 19, 30 2, 431, 80
4, 689, 900 115, 800 4, 805, 700	5, 519, 800 19, 800 5, 539, 100	1, 544, 000 135, 000 1, 679, 100	3, 358, 200 3, 358, 200	4, 863, 600 77, 200 4, 940, 800	5, 558, 400 88, 600 5, 597, 000	4, 489, 000 19, 800 4, 458, 800	8, 821, 40 19, 80 8, 840, 70
1, 640, 500 57, 900	1, 100, 100 38, 600	1, 196, 600 19, 800	1, 582, 600 88, 600	2, 887, 100 115, 800	2, 316, 900 57, 900	2, 045, 800 77, 200 2, 123, 000	791, 80 19, 80 810, 60
868, 500 38, 600	1, 188, 700 1, 080, 800 19, 800	1, 215, 900 1, 621, 200 19, 300	1, 621, 200 2, 103, 700 135, 100	2, 952, 900 2, 952, 900 57, 900	2, 873, 900 2, 045, 800 88, 600 2, 084, 400	1, <b>659</b> , 800 115, 800 1, 775, 600	1, <b>524</b> , 70 38, 60 1, <b>563</b> , 80
907, 100 1, 544, 000	1, 100, 100 1, 679, 100	1, 640, 500 2, 219, 500	2, 238, 800 2, 180, 900	3, 010, 800 1, 486, 100	1, 563, 800	1, 717, 700	1, 466, 80
1, 544, 000	19, 300 1, <b>69</b> 8, <b>4</b> 00	2, 219, 500	2, 180, 900	19, 300 1, 505, 400	1, 563, 300	1, 717, 700	19, 80 1, 486, 10
463, 200 599, 800 1, 062, 500	907, 100 636, 900 1, 544, 000	2, 277, 400 675, 500 2, 952, 900	1, 042, 200 733, 400 1, 775, 600	887, 800 849, 200 1, 737, 000	839, 900 752, 700 1, 582, 600	1, 042, 200 501, 800 1, 514, 000	1, 042, 2 270, 2 1, 312, 4
83, 955, 700 3, 141, 500	375, 095, 500 82, 556, 600	409, 704, 800 87, 765, 700	411, 997, 100 42, 834, 700	399, 336, 300 38, 053, 100		872, 663, 700 85, 454, 100	840, 181, 8 27, 840, 6

FRANCE-Continued.

Value of principal

Articles.	1878.	1874.	1875.	1876.	1877.
Manufactures.					
otton manufactures :	Dollars.	Dollars.	Dollars.	Dollars.	Dollars
Entered for consumption		11, 097, 500	16, 289, 200	14, 899, 600	12, 878, 1
Transit and re-export		18, 064, 800	16, 462, 900	15, 034, 700	17, 350, 7
Total	24, 781, 200	29, 162, 300	82, 752, 100	29, 984, 300	30, 223, 8
Entered for consumption	5, 905, 800	6, 830, 400	7, 179, 600	7, 534, 000	6, 272, 5
Transit and re-export	30, 995, 800	80, 839, 600	26, 827, 000	80, 667, 700	31, 999, 4
Total		36, 670, 000	84, 006, 600	88, 001, 700	38, 271, 9
ool manufactures:	11 590 100	19 959 900	15 079 900	15 947 000	19 974 9
Entered for consumption		12, 853, 800 10, 441, 300	15, 073, 300 9, 592, 100	15, 247, 000 9, 457, 000	18, 274, 8 9, 711, 5
Total	23, 353, 000	23, 295, 100	24, 665, 400	24, 704, 000	22, 986, 3
achines and machinery:		]			
Entered for consumption	4, 940, 800	5, 558, 400	6, 253, 200	<b>6, 986, 6</b> 00	7, 276, 1
Transit and re-export		1, 119, 400 6, 677, 900	889, 900 7, 083, 100	1, 061, 500 8, 048, 100	1, 254, 5 8, 530, 6
repared hides:	0, 180, 800	0, 077, 500	7, 065, 100	6, 030, 100	0,000,0
Eutered for consumption	4, 786, 400	5, 404, 400	8, 144, 600	6, 484, 600	4, 940, 8
Transit and re-export	2, 238, 800	2, 856, 000	2, 893, 200	2, 219, 700	1, 968, 6
Total	7, 025, 200	8, 260, 400	10, 587, 800	8, 704, 300	6, 909, 4
otton yarn and thread:	4 100 100	5 907 500	   0 909 500	0 100 900	0 970 7
Entered for consumption		5, 807, 500 926, 400	8, 202, 500 1, 235, 200	9, 186, 800 1, 138, 700	8, 279, 7 829, 9
Total	5, 056, 600	6, 283, 900	9, 487, 700	10, 325, 500	9, 109,
per, books, and engraving:		1		,,	,,
Entered for consumption		2, 277, 400	2, 431, 800	2, 605, 500	2, 412,
Transit and re-export	1,003,600	829, 900	868, 500	752, 700	907,
Total . old and silver ware, including jewelry	<b>3, 838, 90</b> 0	8, 107, 800	8, 800, 800	3, 358, 200	8, 319, 6
Entered for consumption	714, 100	752, 700	694, 800	714, 100	733, 4
Transit and re-export		5, 985, 100	5, 075, 900	8, 782, 800	4, 342, 8
Total	11, 869, 500	6, 667, 800	5, 770, 700	4, 496, 900	5, 075, 9
ols and hardware:	0.054.600	9 470 400	9 491 900	0.202.000	0.400 /
Entered for consumption		2, 470, 40 <del>0</del> 1, 100, 100	<b>2, 431, 800 1, 003, 600</b>	2, 373, 900 849, 200	2, 489, 7 887, 8
Total		3, 57u, 500	3, 435, 400	3, 223, 100	8, 377, 8
nen and hempen yarn:	3,333,333		, , , , , , , ,	,,	","
Entered for consumption		1, 042, 200	2, 161, 600	1, 601, 900	2, 045, 8
Transit and re-export	0 000 000	1, 544, 000 2, 586, 200	443, 900 2, <b>6</b> 05, 500	1, 119, 400 2, 721, 300	1, 138, 7
ocks and watches:	2, 200, 000	2, 360, 200	2, 000, 500	2, 121, 300	3, 184, 8
Entered for consumption	405, 300	463, 200	424, 600	424, 600	405, 8
Transit and re-export	2, 493, 300	8, 088, 000	5, 133, 800	2, 470, 400	2, 142, 3
Total	3, 898, 600	3, 551, 200	5, 558, 400	2, 895, 000	2, 547, 0
oolen yarn:  Entered for consumption	3, 223, 100	3, 300, 300	3, 531, 900	3, 724, 900	3, 126, 6
Transit and re-export		135, 100	289, 500	212, 300	154, 4
Total	5, 358, 200	3, 435, 400	3, 821, 400	3, 937, 200	3, 281, 0
atting, of straw, bark, grasses, &c.:	0.000.000	0 000 000	0.000.000		
Entered for consumption	2, 238, 800	2, 393, 200	2, 933, 600	3, 184, 500	2, 605, 8
Transit and re-export	2, 759, 900 4, 998, 760	3, 917, 900 6, 311, 100	5, 153, 100 8, 086, 700	3, 030, 100 6, 214, 600	3, 819, 6 5, 925, 1
ite, straw, bark, and esparto:	2,000,700	9,022,200	0,000,100	0, 212, 000	0, 0.0, 2
Entered for consumption	8, 281, 000	3, 917, 900	4, 535, 500	4, 998, 700	4, 689, 9
Transit and re-export	1, 563, 300	2, 065, 100	2, 200, 200	2, 316, 000	2, 566, 9
Total	4, 844, 300,	5, 983, 000	6, 735, 700	7, 314, 700	7, 256, 8
nen and hempen goods:  Entered for consumption	2, 873, 900	2, 161, 600	2, 509, 000	2, 412, 500	2, 065, 1
Transit and re-export		1, 380, 600	1, 466, 800	1, 273, 800	1, 601, 8
Total		3, 551, 200	3, 975, 800	3, 686, 300	3, 667, 0
ather goods:					
Entered for consumption		501, 800	521, 100	559, 700	675, 5
Transit and re-export		2, 296, 700 2, 798, 500	8, <b>068, 700</b> 8, <b>589, 8</b> 00	4, 168, 800 4, 728, 500	4, 670, 0 5, 346, 1
bacco manufactures:		7.50,000	<del></del>	=1 120,000	0, 010, 1
Entered for consumption	675, 500	829, <b>9</b> 00	791, 300	1, 177, 300	965, 0
Transit and re-export	. 5, 056, 600	6, 735, 700	4, 728, 500	1, 225, 200	829, 9
Total	5, 732, 100	7, 565, 600	5, 519, 800	2, 402, 500	1, 794, 8
ms: Entered for consumption				<b>.</b>	
Transit and re-export	1, 698, 400	1, 505, 400	1, 756, 300	2, 238, 800	1, 437, 5
Total	1, 695, 400	1, 505, 400	1, 756, 300	2, 238, 800	1, 447, 5
lal manufactures :			,	, ,	
Entered for consumption	59, 930, 000	66, 662, 600	84, 109, 400	83, 916, 200	76, 131, 8
Transit and re-export	95, 187, 600	94, 290, 100	88, 529, 100	83, 018, 800	87, 123, 8

FRANCE—Continued.

articles imported—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<i>Dollars.</i>	Dollars.	Dollars.	Dollars.	<b>Dollars.</b>	Dollars.	Dollars.	Dollars.
18, 124, 000	12, 028, 900	12, 815, 200	13, 978, 200	14, 089, 000	13, 664, 400	14, 532, 900	12, 892, 400
17, 812, 100	19, 568, 400	21, 807, 200	19, 454, 400	24, 761, 900	24, 375, 900	22, 388, 000	21, 268, 600
<b>80, 486</b> , 100	81, 592, 300	34, 122, 400	83, 427, 600	38, 850, 900	88, 040, 800	86, 920, 900	84, 161, 000
6, 909, 400	7, <b>834</b> , 000	8, 168, 900	9, 572, 800	7, 816, 500	8, 318, 100	8, 221, 800	7, 951, 600
29, 702, 700	80, 378, 200	85, 106, 700	25, 205, 800	21, 673, 900	20, 882, 800	20, 342, 200	15, 420, 700
36, 612, 100	87, 712, 200	43, 270, 600	84, 778, 600	29, 490, 400	29, 200, 900	28, 564, 000	23, 372, 300
18, 259, 100	13, 162, 600	15, 269, 900	14, 861, 000	16, 269, 900	17, 756, 700	17, 188, 400	14, 571, 500
8, 395, 500	8, 723, 600	9, 916, 600	11, 946, 700	13, 066, 100	12, 544, 300	11, 406, 300	9, 514, 900
21, 654, 600	21, 886, 200	25, 186, 500	26, 807, 700	29, 336, 000	30, 301, 000	28, 544, 700	24, 086, 400
8, 144, 600	7, 295, 400	8, 125, 300	12, 853, 800	16, 906, 800	17, 949, 000	11, 599, 300	8, 434, 100
1, 042, 200	1, 698, 400	2, 046, 800	2, 161, 600	2, 759, 900	2, 007, 200	1, 563, 300	1, 100, 100
9, 186, 800	8, 993, 800	10, 171, 100	15, 015, 400	19, 666, 700	19, 956, 200	13, 162, 600	9, 534, 200
5, 114, 500	6, 888, 300	5, 654, 900	6, 446, 200	7, 179, 600	8, 106, 000	7, <b>025</b> , 200	5, 867, 200
1, 856, 300	1, 814, 200	1, 930, 000	2, 258, 100	2, 547, 600	2, 393, 200	2, 528, 800	2, 238, 800
6, 870, 800	8, 202, 500	7, 584, 900	8, 704, 300	9, 727, 200	10, 499, 200	9, 583, 500	8, 106, 000
7, 932, 300	6, 755, 000	5, 940, 900	7, 218, 200	7, 198, 900	7, 835, 800	7, <b>623</b> , 500	7, 488, 400
1, 547, 500	1, 910, 700	2, 068, 600	3, 358, 200	8, 049, 400	2, 854, 600	1, 177, 300	907, 100
9, 479, 800	8, 665, 700	8, 009, 500	10, 576, 400	10, 248, 300	10, 190, 400	8, 800, 800	8, 895, 500
2, 817, 800	4, 149, 500	4, 786, 400	5, 828, 600	6, 936, 600	6, 639, 200	6, 677, 800	6, 118, 100
810, 600	849, 200	984, 300	1, 080, 800	1, 022, 900	887, 800	907, 100	965, 000
8, 628, 400	4, 998, 700	5, 770, 700	6, 909, 400	8, 009, 500	7, 527, 000	7, 584, 900	7, 083, 100
1, 022, 900	1, 061, 500	1, 331, 700	2, 026, 500	1, 891, 400	1, 737, 000	1, 486, 100	1, 293, 100
5, 191, 700	5, 461, 900	5, 770, 700	8, 028, 800	10, 923, 800	8, 607, 800	6, 021, 600	8, 453, 400
6, 214, 600	6, 523, 400	7, 102, 400	10, 055, 300	12, 815, 200	10, 344, 800	7, 507, 700	9, 74 <b>6</b> , 500
2, 702, 000	2, 952, 900	8, 512, 600	4, 979, 400	6, 774, 800	6, 195, 300	4, 979, 400	4, 323, 200
926, 400	903, 600	1, 254, 500	1, 582, 600	1, 621, 200	1, 756, 300	1, 466, 800	1, 196, 600
3, 628, 400	8, 956, 500	4, 767, 100	6, 562, 000	8, 395, 500	7, 951, 600	6, 446, 200	5, 519, 800
2, 142, 800	2, 219, 500	1, 505, 400	1, 891, 400	2, 316, 000	2, 200, 200	1, <b>698</b> , <b>400</b>	1, <b>235</b> , 200
1, 273, 800	1, 188, 700	2, 566, 900	2, 895, 000	8, 821, 400	4, 323, 200	8, <b>917</b> , <b>900</b>	2, 180, 900
3, 416, 100	3, 858, 200	4, 072, 800	4, 786, 400	6, 137, 400	6, 523, 400	5, <b>616</b> , <b>300</b>	8, <b>4</b> 16, 100
448, 900	579, 000	656, 200	617, 600	1, 080, 800	1, 100, 100	1, 022, 900	1, 003, 600
2, 854, 600	2, 277, 400	8, 300, 300	8, 496, 900	4, 381, 100	8, 512, 600	3, 261, 700	8, 223, 100
2, 798, 500	2, 856, 400	8, <b>956</b> , 500	4, 114, 500	5, 461, 900	4, 612, 700	4, 284, 600	4, 226, 700
3, 667, 000	2, 798, 500	3, 358, 200	8, 995, 100	2, 991, 500	8, 435, 400	3, 358, 300	4, 881, 100
173, 700	250, 900	308, 800	366, 700	347, 400	366, 700	501, 800	289, 500
3, 840, 700	3, 049, 400	3, 667, 000	4, 361, 800	8, 838, 900	8, 802, 100	3, 860, 000	4, 670, 600
2, 895, 000	2, 509, 000	3, 593, 300	3, 281, 100	2, 914, 800	1, 756, 300	2, 200, 200	1, 466, 800
2, 470, 400	2, 605, 500	8, 181, 000	4, 612, 600	3, 860, 000	2, 856, 400	1, 428, 200	772, 000
5, 365, 400	5, 114, 500	6, 774, 300	7, 893, 700	6, 774, 800	4, 612, 700	8, 628, 400	2, 238, 800
4, 670, 600	3, 877, 500	3, 705, 600	4, 574, 100	4, 053, 000	8, 088, 000	3, 049, 400	2, 817, 800
2, 412, 500	1, 544, 000	2, 451, 100	1, 351, 000	2, 161, 600	868, 500	250, 900	270, 200
7, 083, 100	4, 921, 500	6, 156, 700	5, 925, 100	6, 214, 600	8, 956, 600	3, 300, 300	8, 088, 000
2, 898, 200	2, 991, 500	1, 949, 300	1, 872, 100	1, 659, 800	1, 331, 700	1. <b>6</b> 01, 900	1, 080, 800
1, 312, 400	1, 717, 700	1, 717, 700	1, 910, 700	2, 103, 700	1, 621, 200	1, 100, 100	791, 800
3, 705, 600	4, 709, 200	8, 667, 000	3, 782, 800	3, 763, 500	2, 952, 900	2, 702, 000	1, 872, 100
772, 000	752, 700	1, 003, 600	1, 177, 300	1, 775, 600	1, 466, 800	1, 312, 400	1, 851, 000
4, 670, 600	4, 998, 700	4, 902, 200	3, 531, 900	3, 975, 800	1, 466, 800	1, 312, 400	1, 188, 700
5, 442, 600	5, 756, 400	5, <b>9</b> 05, 800	4, 709, 200	5, 751, <b>4</b> 00	2, 933, 600	2, 624, 800	2, 489, 700
926, 400	829, 900	907, 100	559, 700	772, 000	772, 000	1, 138, 700	463, 200
849, 200	907, 100	849, 200	829, 900	1, 042, 200	1, 370, 300	1, 138, 700	1, 177, 800
1, 775, 600	1, 737, 000	1, 756, 800	1, 389, 600	1, 814, 200	2, 142, 300	2, 277, 400	1, 640, 500
1, 196, 600	1, 872, 100	2, 045, 800	1, 601, 900	1, 408, 900	1, 851, 000	1, 215, 900	1, 138.100
1, 196, 600	1, 871, 100	2, 045, 800	1, 601, 900	1, 408, 900	1, 851, 000	1, 215, 900	1, 138, 100
78, <b>9</b> 37, 000	77, 280, 700	82, 279, 500	95, 728, 100	102, <b>676, 000</b>	103, 352, 000	94, 666, 500	82, 789, 100
83, <b>89</b> 8, 800	88, 620, 300	101, 707, 400	95, 678, 600	104, 528, 800	93, 546, 600	81, 928, 500	72, 046, 800
62, <b>83</b> 5, 800	165, 901, 000	183, 966, 900	191, 401, 700	207, 204, 800	196, 898, 600	176, 595, 000	154, 785, 400

FRANCE—Continued.

## Value of principal

Articles.	1873.	1874.	1875.	1876.	1877.
	94, 557, 200 686, 076, 400	Dollars. 78, 444, 100 18, 962, 200 97, 406, 300 676, 986, 100 176, 556, 400 853, 542, 500	682, 583, 100 178, 544, 360	Dollars. 71, 158, 400 85, 709, 700 106, 868, 100 769, 761, 200 177, 637, 200 747, 398, 400	173, 719, 300

#### Value of principal

Articles.	1873.	1874.	1875.	1876.	1877.
Alimentary products.	<u> </u>		· 		
Vines:	Dollars.	Dollars.	Dollars	Dollars.	Dollars.
French products		44, 254, 900	47, 767, 500	40, 838, 800	42, 614, 40
Foreign products		1, 563, 300	926, 400	887, 800	907, 10
Total	55, 429, 600	45, 818, 200	48, 693, 900	41, 726, 600	43, 521, 50
utter and cheese:	1			1	1
French products	15, 826, 000	17, 427, 900	17, 389, 300	21, 017, 700	19, 840, 40
Foreign products	1, 466, 800	1, 659, 800	3, 858, 200	1, 428, 200	1, 466, 80
Total	17, 292, 800	19, 087, 700	20, 747, 500	22, 445, 900	21, 307, 20
oreals:	99 77 000	00 004 000	00 101 100	00 051 500	20 505 00
French products	83, 775, 000	26, 884, 900	89, 121, 100	28, 351, 700	36, 727, 90
Foreign products		14, 552, 200	7, 384, 000	12, 795, 900	9, 090, 80
randy, spirits, and liquors:	00, 005, 200	41, 487, 100	46, 455, 100	41, 147, 600	45, 818, 20
French products	19, 975, 400	13, 836, 300	15, 343, 500	20, 361, 500	12, 023, 40
French products	579, 00	656, 200	405, 800	501, 800	1, 177, 80
Total	19, 454, 400	13, 992, 500	15, 748, 800	20, 863, 300	18, 201, 20
offee:					,
French products			 		
Foreign products	9, 264, 000	12, 448, 500	13, 896, 000	11, 502, 800	9, 881, 60
Total	9, 264, 000	12, 448, 500	18, 996, 000	11, 502, 800	9, 881, 60
efined sugars:					
French products	23, 410, 900	27, 097, 200	29, 355, 300	26, 093, 600	25, 360, 20
Foreign products	510, 400	135, 100	2, 161, 600	173, 700	05 000 00
Total	23,951,300	27, 282, 800	81, 516, 900	26, 267, 300	25, 360, 20
able fruit:	E 450 000	7 720 200	7 604 900	4 707 100	7 997 E0
French products	5, 456, 600 289, 500	7, 739, 300	7, 604, 200 808, 800	4, 767, 100 2, 412, 500	7, 237, 50 808, 80
Total	5, 846, 100	405, 300 8, 144, 600	7, 918, 000	7, 179, 600	7, 546, 30
ggs of all kinds:	0, 010, 100	0, 133, 000	1, 510, 000	1, 115, 600	1,020,00
French pro!ucts	6, 890, 100	7, 295, 400	8, 974, 500	8, 839, 400	7, 834, 00
Foreign products	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	19, 300	77, 200	173, 700	945, 70
Total	6, 890, 100	7, 314, 700	9, 051, 700	9, 013, 160	8, 279, 70
lve animals:		' '	' '	l ' '	1 ' '
French products	)				_
Foreign products	}	Entered wi	th horses and	d mules for t	hese years
Total	)			_	
ish:	# K49 700	4 000 500	F 000 000	F 000 F00	F 550 40
French products	6, 542, 700	4, 998, 700	5, 828, 600	5, 693, 500	5, 558, 40
Foreign products Total	231, 600 6, 774, 300	212, 300	193, 000	808, 800	250, 90 5, 809, 80
ive oil:	, 112, 300	5, 211, 000	6, 021, 600	6, 002, 300	J, 600, 30
French products	*2, 161, 600	*2, 373, 900	*2, 644, 100	*3, 995, 100	*8, 435, 40
Foreign products		2, 566, 900	3, 512, <b>6</b> 00	8, 030, 100	4, 439, 00
Total.	4, 670, 600	4, 940, 800	6, 156, 700	7, 025, 200	7, 874, 40
rease of all sorts:	]				
French products		2, 489, 700	8, 319, 600	3, 882, 800	4, 516, 20
Foreign products	965, 000	1, 100, 100	1, 351, 000	843, 900	366, 70
Total	4, 014, 400	3, 589, 800	4, 670, 600	4, 226, 700	4,882,96
eats of all kinds:	502 555				
French products		783, 400	810,600	829, 900	675, 50
Foreign products		193, 000	270, 200	270, 200	794, 80
Totalnrefined sugars:	945, 700	926, 400	1, 080, 800	1, 100, 100	1, 138, 70
French products	8, 646, 400	12, 911, 700	10, 229, 000	6, 002, 300	8, 530, 60
Foreign products	1, 582, 600	907, 100	1, 505, 400	849, 000	1, 775, 60
Total.	10, 229, 000	13, 818, 800	11, 784, 400	6, 851, 300	10, 306, 30
otal alimentary products:	,,	,,	1,,	1 2 22,000	
French products	179, 816, 300	167, 548, 800	188, 387, 300	170, 878, 400	173, 853, 96
		1、1 11年 カラごと アスデー			
Foreign products	40, 800, 200	86, 419, 100 203, 962, 400	85, 299, 700	84, 678, 400	31, 078, 50

<sup>\*</sup> Including oils from grains, &c.

FBANCE—Continued.

# articles imported—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollare.	Dollara.	Dollars.	Dollars.	<i>Dollars</i> .	Dollars.
87, 486, 200	89, 510, 600	105, 582, 300	111, 727, 600	124, 504, 300	122, 708, 900	110, 43 <b>4</b> , 700	104, 586, 700
18, 747, 600	26, 971, 600	29, 347, 500	29, 425, 000	18, 767, 100	30, 8.9, 400	25, 881, 200	24, 038, 400
106, 233, 800	116, 482, 200	134, 929, 800	141, 152, 600	153, 271, 400	158, 588, 300	136, 315, 900	12d, 625, 100
806, 006, 600 176, 151, 100 962, 157, 700	896, 873, 600 194, 831, 300 1,081,204,900	971, 407, 660 208, 401, 400 1,179,809,000	938, 636, 200 218, 630, 400 1,157,266,600	930, 607, 400 220, 039, 300 1,150,646,700		838, 295, 500 172, 831, 500 1,011,127 <b>,0</b> 00	162, 428, 800
artioles exp	orted.	· · · · · · · · · · · · · · · · · · ·					
1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<b>Dollars.</b> 38, 812, 300 1, 158, 000 39, 970, 300	Dollars. 49, 736, 100 1, 889, 600 51, 125, 700	Dollars. 47, 804, 300 1, 833, 500 49, 187, 800	Dollars. 48, 790, 400 2, 200, 200 50, 990, 600	Dollars. 47, 618, 100 2, 180, 900 49, 794, 000	Dollars. 45, 644, 500 1, 582, 600 47, 227, 100	<i>Dollars</i> . 45, 798, 900 1, 891, 400 47, 690, 300	<b>Dollars.</b> 49, 888, 700 1, 466, 800 50, 855, 500
16, 887, 500	14, 011, 800	17, 427, 900	17, 775, 800	23, 595, 100	20, 631, 700	21, 0 <b>94, 900</b>	19, 280, 700
1, 794, 900	2, 605, 500	3, 126, 600	3, 609, 100	2, 652, 900	2, 779, 200	2, 721, 300	2, 624, 800
18, 682, 400	16, 617, 300	20, 554, 500	21, 364, 400	26, 248, 000	23, 410, 900	23, 816, 200	21, 905, 500
10, 653, 400	8, 492, 000	12, 081, 800	18, 892, 900	10, 962, 400	11, 116, 800	8, <b>665</b> , 700	6, 677, 800
14, 012, 000	17, 678, 800	14, 185, 500	13, 181, 900	16, 964, 700	12, 641, 500	7, 814, 700	5, 925, 100
24, 665, 400	26, 170, 800	26, 267, 850	81, 574, 800	27, 927, 100	23, 758, 800	15, 9e0, 400	12, 602, 900
14, 069, 700	19, 936, 900	15, 555, 800	14, 822, 400	13, 181, 900	14, 146, 900	14, <b>069, 70</b> 0	14, 610, 100
1, 737, 000	2, 644, 100	2, 854, 600	2, 123, 000	1, 794, 900	1, 640, 500	1, 042, 200	1, 188, 700
15, 806, 700	22, 581, 000	17, 910, 400	16, 945, 400	14, 976, 800	15, 787, 400	15, 111, 900	15, 748, 800
10, 383, 400	12, 931, 000	9, 572, 800	12, 641, 500	9, 978, 100	15, 169, 800	12, 815, 200	14, 011, 800
10, 883, 400	12, 931, 000	9, 572, 800	12, 641, 500	9, 978, 100	15, 169, 800	12, 815, <b>20</b> 0	14, 011, 800
23, 102, 100	19, 454, 400	17, 910, 400	16, 134, 800	16, 096, 200	15, 594, 400	11, 3 <b>87, 000</b>	<b>6, 446, 200</b>
96, 500	115, 800	135, 100	270, 200	115, 800	173, 700	115, 800	193, 000
23, 198, 600	19, 574, 200	18, 045, 500	16, 405, 000	16, 212, 000	15, 768, 100	11, 50 <b>2, 890</b>	<b>6, 639, 200</b>
5, 654, 900	5, 326, 800	6, 523, 400	6, 716, 400	8, 414, 890	6, 021, 600	8, 241, 100	8, 916, 600
270, 200	791, 300	675, 500	656, 200	656, 200	1, 870, 300	791, 300	1, 061, 500
5, 925, 100	6, 118, 100	7, 198, 900	7, 872, 600	9, 071, 090	7, 391, 900	9, 032, 400	9, 978, 100
<b>6</b> , 870, 800	6, 291, 800	5, 790, 000	5, <b>693</b> , 500	5, 481, 200	5, 963, 700	5, 84 <b>7, 900</b>	<b>5, 597, 000</b> 2, <b>4</b> 51, 100 8, 048, <b>100</b>
1, <b>6</b> 21, 200	1, 659, 800	1, 775, 600	1, <b>698</b> , 400	1, 408, 900	2, 277, 400	2, 54 <b>7, 6</b> 00	
8, <b>492</b> , 000	7, 931, 600	7, 565, 600	7, 391, 900	6, 890, 100	8, 241, 100	8, 393, 500	
{	3, 377, 500	8, 956, 500	5, 751, 400	7, 218, 200	6, 291, 800	6, 150, 700	5, <b>095</b> , 200
	926, 400	810, 600	598, 300	695, 200	849, 200	604, 300	521, 100
	4, 303, 900	4, 767, 100	6, 349, 700	7, 913, 000	7, 141, 000	6, 765, 000	<b>5, 616, 3</b> 00
6, 465, 500	7, 334, 000	7, 160, 300	6, 851, 500	5, 519, 800	7, 372, 600	5, 905, 890	5, 384, 700
115, 800	135, 100	386, 000	424, 600	443, 900	618, 100	598, 300	849, 200
6, 581, 300	7, 469, 100	7, 546, 300	7, 276, 100	5, 963, 700	7, 990, 700	6, 504, 100	6, 238, 900
*3, 896, 890	963, 000	1, 100, 100	965, 000	965, 000	1, 017, 900	1, 5 <b>63, 300</b>	1, <b>563</b> , 800
3, 219, 600	1, 719, 700	1, 717, 700	1, 949, 800	1, 949, 300	2, 031, 500	2, 373, 900	2, 586, 200
6, 716, 400	2, 682, 700	2, 817, 800	2, 914, 800	2, 914, 800	3, 049, 400	8, 987, 200	4, 149, 500
4, 439, 000	5, 075, 900	4, 574, 100	2, 547, 600	6, 079, 500	4, 245, 500	8, 184, 500	2, <b>6</b> 24, 800
\$56, 700	656, 200	752, 700	57, 900	694, 800	636, 900	482, 500	463, 200
4, 805, 700	5, 732, 100	5, 326, 800	2, 605, 500	6, 774, 800	4, 882, 900	8, 667, 000	3, 088, 000
559, 700	2, 142, 900	2, 835, 300	2, 238, 800	2, 854, 600	2, 893, 290	2, 500, 900	2, 489, 700
794, 800	694, 800	501, 800	887, 800	1, 119, 400	617, 600	617, 600	636, 900
1, 854, 500	2, 837, 100	2, 837, 100	3, 126, 600	2, 474, 000	8, 010, 800	8, 126, 600	8, 126, 600
5, 577, 700	2, 586, 200	2, 983, 600	4, 682, 000	4, 902, 200	5, 442, 600	1, 891, 490	289, 500
598, 200	839, 900	596, 300	694, 800	686, 900	810, 600	866, 700	434, 600
6, 176, 000	8, 416, 100	8, 531, 900	5, 326, 800	5, 539, 100	6, 258, <b>2</b> 00	2, 258, 100	714, 100
136, 489, 400 36, 268, 400 172, 757, 800	144, 728, 700 44, 778, 000 189, 506, 700	144, 658, 500 88, 426, 300 183, 079, 800	151, 812, 000 49, 998, 200 192, 305, 200	41, 291, 500	43, 198, 900	13 <b>6, 309, 900</b> 84, 285, <b>80</b> 0 170, 5 <b>9</b> 5, 700	128, <b>864</b> , 800 84, 854, 000 162, 718, 800

<sup>\*</sup> Including oils from grains, &c.

FRANCE-Continued.

Value of prinicipal articles

Materials necessary to industry.  k: French product Total  cols: French product Total  des and pelts: French product Total  tton: French product Total  tton: French product Total	17, 891, 100 87, 249, 000 16, 713, 800 984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 13, 181, 900	Dollars. 18, 605, 200 16, 694, 500 85, 299, 700 20, 110, 600 1, 312, 400 21, 423, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	Dollars. 25, 669, 000 14, 552, 200 40, 221, 200 16, 231, 300 1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100 9, 804, 400	Dollars. 33, 215, 300 23, 449, 500 56, 664, 800 14, 436, 400 1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	Dollars. 23, 140, 70 15, 710, 20 38, 850, 90 14, 890, 30 1, 022, 90 15, 908, 20 8, 125, 80
k: French product. Foreign product. Total.  cols: French product Foreign product Total  des and pelts: French product. Foreign product.  Total  tton: French product. Foreign product.  Total	19, 357, 900 17, 891, 100 87, 249, 000 16, 713, 800 984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	18, 605, 200 16, 694, 500 35, 299, 700 20, 110, 600 1, 312, 400 21, 428, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	25, 669, 000 14, 552, 200 40, 221, 200 16, 231, 300 1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100	33, 215, 300 23, 449, 500 56, 664, 800 14, 436, 400 1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	23, 140, 70 15, 710, 20 38, 850, 90 14, 880, 80 1, 022, 90 15, 908, 20 8, 125, 80
French product Foreign product Total  ools: French product Total  des and pelts: French product Foreign product  ton: French product  Total	19, 357, 900 17, 891, 100 87, 249, 000 16, 713, 800 984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	18, 605, 200 16, 694, 500 35, 299, 700 20, 110, 600 1, 312, 400 21, 428, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	25, 669, 000 14, 552, 200 40, 221, 200 16, 231, 300 1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100	33, 215, 300 23, 449, 500 56, 664, 800 14, 436, 400 1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	23, 140, 70 15, 710, 20 38, 850, 90 14, 880, 80 1, 022, 90 15, 908, 20 8, 125, 80
Foreign product Total  ools: French product Foreign product Total  des and pelts: French product Foreign product  ton: French product  ton: French product Foreign product	17, 891, 100 37, 249, 000 16, 713, 800 984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	16, 694, 500 35, 299, 700 20, 110, 600 1, 312, 400 21, 423, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	14, 552, 200 40, 221, 200 16, 231, 300 1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100	23, 449, 500 56, 664, 800 14, 496, 400 1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	15, 710, 20 38, 850, 90 14, 890, 30 1, 022, 90 15, 908, 20 8, 125, 80
French product Foreign product Total  des and pelts: French product  Total	16, 713, 800 984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 8, 181, 900 3, 396, 800	20, 110, 600 1, 312, 400 21, 423, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	16, 231, 300 1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100	14, 436, 400 1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	14, 880, 30 1, 022, 90 15, 908, 20 8, 125, 80
French product  Foreign product  Total  des and pelts: French product  Total  Total  ton: French product  French product  Total	984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	1, 312, 400 21, 423, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100	1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	1, 022, 90 15, 908, 20 8, 125, 80
Foreign product Total  des and pelts: French product Foreign product  Total  iton: French product Foreign product	984, 300 17, 698, 100 6, 832, 200 1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	1, 312, 400 21, 423, 000 7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	1, 486, 100 17, 717, 400 7, 932, 300 1, 872, 100	1, 852, 800 16, 269, 200 7, 604, 200 1, 312, 400	1, 022, 90 15, 908, 20 8, 125, 80
Total	17, 698, 100  6, 832, 200  1, 466, 800  8, 299, 000  13, 181, 900  3, 396, 800	7, 507, 700 2, 316, 000 9, 823, 700 13, 818, 800	7, 932, 300 1, 872, 100	7, 604, 200 1, 312, 400	15, 908, 20 8, 125, 80
French product	1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	2, 316, 000 9, 823, 700 13, 818, 800	1, 872, 100	1, 312, 400	
Foreign productton: French product Foreign product	1, 466, 800 8, 299, 000 13, 181, 900 3, 396, 800	2, 316, 000 9, 823, 700 13, 818, 800	1, 872, 100	1, 312, 400	
Totaltton:  tton: French product Foreignproduct	8, 299, 000 13, 181, 900 3, 396, 800	9, 823, 700 13, 818, 800			1, 428, 20
French product	<b>3, 396, 800</b>		1	8, 916, 600	9, 558, 50
Foreign product	<b>3, 396, 800</b>		10.000.000	17 407 700	
		2, 740, 600	10; 036, 000 2, 354, 600	15, 227, 700 2, 952, 900	18, 780, 20
Total		16, 559, 400	12, 390, 600	18, 180, 600	8, 838, 90 17, 119, 10
ls, from grains, fruits, &c.:			1,,		,,
French product	••   }	]			ļ
Foreign product	> Entered w	TUD OIIVE OII	during these	years	
oods, common:	6, 465, 500	6, 870, 800	7, 990, 200	8, 565, 900	7, 469, 1
French product	2, 412, 500	2, 854, 600	443, 900	80, 500	135, 1
Foreign product	8, 878, 000	9, 225, 400	8, 434, 100	8, 646, 400	7, 604, 2
Totalorses and mules:	*14, 590, 800	*14, 725, 900	<b>*15, 575, 100</b>	*14, 031, 300	=12, 823, <b>7</b>
French product	328, 100	540, 400	548, 800	656, 000	1, 746, 0
Foreign product	14, 918, 900	15, 266, 300	16, 173, 400	14, 687, 300	14, 069, 7
Total	9 109 700	9 500 000	1 040 900	1 490 900	1 001 2
pper:     French product	2, 108, 700 154, 400	2, 566, 900 173, 700	1, 949, 800 501, 800	1, 428, 200 521, 100	1, 061, 5 791, 3
Foreign product	2, 258, 100	2, 740, 600	2, 451, 100	1, 949, 300	1, 852, 8
Total				-,,	-,, -
ilding materials:	9 007 100	2, 624, 800	2 949 400	0 005 000	0 000 0
French product	2, 887, 100 77, 200	38,600	<b>3, 242, 400</b> 19, 300	2, 895, 000 38, 600	2, 816, 0 85, 6
Total .	2, 914, 800	2, 663, 400	3, 261, 700	2, 933, 600	2, 354, 6
ed-grains:		1	(	, ,	
French product				• • • • • • • • • • • • • • • • • • • •	
Total					
ax and hemp:			_		
French product	8, 705, 600	8, 261, 700	3, 821, 400	2, 914, 200	3, 281, 0
Foreign product	<b>675, 500</b> <b>4, 381, 100</b>	328, 100 3, 589, 800	443, 900 4, 265, 300	328, 100 8, 242, 400	403, 2
al and coke:		0,000,000	2, 200, 500	<i>n</i> , 212, 100	3, 744, 2
French product	2, 644, 100	2, 816, 000	2, 065, 700	2, 234, 800	1, 833, 5
Foreign product	1, 949, 300	1, 254, 500	1, 428, 200	1, 235, 200	1, 312, 4
Total	4, 593, 400	8, 570, 500	8, 493, 800	8, 474, 000	3, 145, 9
French product	2, 354, 600	2, 412, 500	2, 682, 700	2, 682, 700	2, 566, 9
Foreign product	19, 300	19, 300	19, 300	173, 700	828, 1
Total	2, 373, 900	2, 431, 800	2, 702, 000	2, 856, 400	2, 895, 0
on and steel:  French product	5, 828, 600	4, 844, 300	1, 737, 000	1, 177, 300	752, 7
Foreign product		4, 844, 300	5, 268, 900	4, 303, 909	3, 088, 0
Total	9, 148, 200	9, 688, 600	7, 005, 900	5, 481, 200	3, 840, 7
l cake: French product	2, 335, 300	2, 798, 500	3, 281, 000	9 198 400	9 566 0
Foreign product	19, 300	2, 190, 000	0, 201, 000	8, 126, 600	2, 566, 9
Total	2, 354, 660	2, 798, 500	3, 281, 000	8, 126, 600	2, 566, 9
air of all sorts:	1 007 000	0 470 400	0 101 000		
French product	1, 987, 900 443, 900	2, 470, 400 886, 000	2, 161, 600 886, 009	1, 814, 200 866, 700	1, 949, 3 48 <b>2</b> , 5
Total	2, 431, 800	2, 856, 400	2, 547, 600	2, 180, 900	<b>2, 431, 8</b>
digo:			·		' '
French product	1, 196, 600	1, 080, 800	521, 100	1, 042, 200	675, 5
Foreign product Total	173, 700 1, 870, 800	907, 100 1, 987, 900	733, 400 1, 254, 500	521, 100 <b>2,</b> 568, 300	424, 6
ffron:	2, 510, 500	2, 501, 500	_, <del>~~</del> , ~~	<i>a</i> , vvo, əvv	1, 100, 1
French product	752, 700	463, 200	618, 600	847, 400	579, 0
Foreign product	791, 300,	656, 200	891, 800	<b>521, 100</b>	840, 2
Totaleaginous grain and fruit:	1, 544, 000	1, 119, 400	1, 505, 400	868, 500	1, 428, 2
French product	1, 698, 400	2, 856, 400	2, 721, 800	1, 910, 700	1, 949, 8
Foreign product		154, 400 8, 010, 800	154, 400 2, 875, 700	173, 700	540, 4

\*Including oxen, sheep, &c.

FRANCE-Continued.

exported—Continued.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
<i>Dollars</i> . 23, 002, 800 17, <b>63</b> 0, 900 42, <b>63</b> 8, 700	Dollars. 80, 609, 800 14, 648, 700 45, 258, 500		<b>Dollars</b> , 38, 040, 300 18, 741, 700 56, 742, 000	<b>Dollars.</b> 89, 603, 600 13, 490, 700 53, 094, 300	Dollars. 28, 371, 000 9, 611, 400 37, 982, 400	Dollars. 29, 953, 600 12, 738, 000 42, 691, 600	Dollars. 23, 372, 300 7, 46:), 100 30, 841, 400
17, 812, 100	22, 619, 600	25, 572, 500	20, 380, 800	18, 873, 600	16, 354, 300	18, 528, 000	17, <b>52</b> 4, 400
772, 000	1, 270, 800	1, 659, 800	1, 524, 700	1, 466, 807	1, 794, 900	2, 103, 700	2, 103, 700
18, 084, 100	28, 889, 900	27, 232, 300	21, <b>905</b> , 500	19, 840, 400	20, 149, 200	20, 631, 700	19, <b>6</b> 28, 100
8, 279, 700	14, 171, 100	12, <b>004, 6</b> 00	12, 525, 700	15, 247, 000	15, 015, 400	18, 143, 800	12, 448, 500
1, 351, 000	1, 408, 900	1, 640, 500	2, 065, 100	1, 930, 000	1, 891, 400	1, 794, 900	2, 893, 200
9, 630, 700	11, 580, 000	13, 645, 100	14, 590, 800	17, 177, 000	16, 906, 800	14, 938, 200	14, 841, 700
15, 208, 400	12, 911, 700	13, 413, 500	12, 871, 800	8, 569, 200	7, 604, 200	7, 334, 000	6, 272, 500
3, 030, 100	3, 396, 800	6, 388, 300	4, 805, 700	4, 998, 700	2, 837, 100	4, 670, 600	2, 702, 000
18, 238, 500	16, 808, 500	19, 801, 800	17, 177, 000	13, 567, 900	10, 441, 800	12, 004, 600	8, 974, 500
•••••• ••·	1, 891, 400	2, 200, 200	2, 779, 200	8, 956, 500	8, 686, 800	4, 803, 900	4, 844, 300
	2, 835, 300	1, 833, 544	1, 640, 500	1, 466, 800	1, 775, 600	2, 026, 500	1, 794, 900
	4, 226, 700	4, 033, 700	4, 419, 700	5, 423, 300	5, 461, 900	1, 330, 400	6, 639, 200
6, 398, 100	6, 002, 800	6, 716, 400	6, 118, 100	5, 249, 600	5, 442, 600	5, 654, 900	5, 037, 80(
116, 000	173, 700	193, 000	173, 700	193, 000	77, 200	135, 100	185, 100
6, 504, 100	6, 176, 000	6, 909, 400	6, 291, 800	5, 442, 600	5, 519, 800	5, 790, 000	5, 172, 400
*8, 646, 400	8, 107, 300	4, 056, 500	4, 284, 600	4, 207, 400	5, 790, 000	5, 461, 900	6, 697, 100
2, 296, 700	270, 200	19, 300	212, 300	57, 900	424, 600	231, 600	154, 400
10, 943, 100	3, 377, 500	4, 075, 800	4, 496, 900	4, 263, 300	6, 214, 600	5, 693, 500	6, 851, 500
1, 601, 900	752, 700	1, 872, 100	2, 316, 000	1, <b>679</b> , 100	3, 551, 200	3, 416, 100	2, 740, 60
598, 300	1, 254, 500	1, 022, 900	1, 119, 400	1, <b>7</b> 37, 000	1, 278, 800	752, 7:0	598, 80
2, 200, 200	2, 007, 200	2, 895, 000	8, 435, 400	<b>3</b> , <b>416</b> , 100	4, 825, 000	4, 168, 800	8, 838, 90
2, 161, 600	2, 431, 800	2, 817, 900	8, 088, 000	8, 493, 800	3, 531, 900	8, 937, 200	3, <b>6</b> 86, 306
88 600	19, 300	88, 600	19, 300	19, 300	19, 300	19, 800	19, 306
2, 200, 200	2, 451, 100	2, 856, 400	3, 107, 300	8, 512, 600	8, 551, 200	8, 956, 500	3, <b>7</b> 05, <b>6</b> 06
	8, 107, 800	2, 759, 900	3, 165, 200	5, 018, 000	5, 616, 300	3, 782, 800	8, 068, 70
	2, 798, 500	38, 600	115, 800	88, 600	38, 600	57, 900	88, 60
	8, 145, 900	2, 798, 500	8, 281, 000	5, 056, 600	5, 654, 900	8, 840, 700	3, 107, 30
2, 277, 400	2, 779, 200	3, 203, 800	2, 451, 100	2, 142, 300	2, 161, 600	2, 721, 300	2, 972, 200
559, 700	714, 100	791, 300	1, 100, 100	926, 400	1, 196, 600	1, 061, 500	1, 273, 800
<b>2, 837,</b> 100	3, 493, 300	<b>3, 995</b> , 100	3, 551, 200	8, 068, 700	3, 358, 200	3, 782, 800	4, 246, 000
1, 486, 100	1, 312, 400	1, 787, 000	1, 737, 000	1, <b>67</b> 0, 100	1, 466, 800	1, 428, 200	1, 370, 30
1, 138, 700	1, 489, 600	1, 524, 600	1, 833, 500	1, 987, 900	1, 930, 000	1, 756, 300	1, 582, 60
2, 624, 800	2, 702, 000	8, 261, 700	<b>3,</b> 57 <b>0, 5</b> 00	<b>3, 667,</b> 000	8, 396, 8, 0	3, 184, 500	2, 952, 90
2, 682, 700	2, 952, 900	8, 995, 100	<b>4, 207, 400</b>	4, 400, 400	4, 110, 900	8, 030, 100	4, 844, 806
96, 500	77, 200	115, 800	135, 100	96, 500	173, 700	77, 200	57, 900
2, 779, 200	8, 080, 100	<b>4,</b> 110, 900	<b>4, 342, 4</b> 00	4, 496, 900	4, 284, 600	3, 107, 800	4, 902, 200
656, 200	501, 800	772, 000	579, 000	347, 400	501, 800	308, 800	945, 700
3, 126, 600	2, 914, 300	8, 435, 400	8, 570, 500	3, 724, 900	8, 377, 500	2, 779, 200	3, 319, 600
8, 782, 800	8, 416, 100	4, 207, 400	<b>3, 149, 50</b> 0	4, 072, 300	8, 879, 300	3, 088, 000	4, 265, 300
2, 296, 700 2, 296, 700	2, 412, 500 2, 412, 500	2, 856, 400 88, 600 2, 895, 000	8, 165, 200 19, 300 3, 184, 500	2, 509, 000 403, 800 2, 914, 303	2, 991, 500 2, 991, 500	2, 827, 100 96, 500 2, 933, 600	2, 837, 100 2, 837, 100
1, 891, 400	2, 200, 200	2, 296, 709	2, 682, 700	2, 779, 200	2, 837, 100	2, 180, 900	1, 698, 400
347, 400	289, 500	289, 509	289, 500	328, 100	135, 100	289, 500	193, 000
2, 238, 800	2, 489, 700	2, 586, 200	2, 972, 200	3, 107, 300	2, 972, 200	2, 470, 400	1, 891, 400
1, 293, 100	1, 852, 800	1, 293, 109	1, 428, 200	1, 100, 100	1, 293, 100	926, 400	1, 100, 100
289, 500	328, 100	501, 800	463, 200	405, 300	386, 000		714, 100
1, 582, 600	2, 180, 900	1, 794, 900	1, 891, 400	1, 505, 400	1, 679, 100		1, 814, 200
829, 900 617, 600 1, 447, 500	772, 000 579, 000 1, 851, 000	675, 500 675, 500 1, 351, 000	617, 600 733, 400 1, 851, 600	463, 200 829, 900 1, 293, 100	847, 400 752, 700 1, 100, 100	405, 300 347, 400	•
984, 300 193, 000 1, 177, 300	828, 100 193, 000 521, 100	424, 600 57, 900 482, 500	366, 700 154, 400 521, 100	347, 400 154, 400 501, 800	386, <b>0</b> 00 135, <b>10</b> 0	540, 400 96, 500	463, 200 154, 400

#### FRANCE-Continued.

Value of principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Materials necessary to industry—Cont'd.					
Total materials necessary to industry:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
French product	104, 586, 700	109, 334, 500	108, 230, 400	114, 658, 200	99, 250, 900
Foreign product	34, 276, 800 138, 863, 500	84, <b>720</b> , 70 <b>0</b> 144, 055, 20 <b>0</b>	31, 154, 200 139, 384, 600	88, 487, 300 153, 145, 500	81, 699, 600 1 <b>30, 95</b> 0, 500
Manufactures.				220, 220, 000	100, 000, 000
Woolen goods:					
French product	62, 898, 700	63, 804, 000	66, 855, 200	61, 684, 500	62, 744, 860
Foreign product.		11, 773, 000	13, 239, 800	12, 101, 100	10, 844, 800
Total	77, 373, 700	75, 077, 000	80, 095, 000	73, 185, 600	73, 089, 100
French product	92, 369, 800	80, 326, 600	72, 703, 100	57, 108, 700	50, 025, 600
Foreign product Total	31, 574, 800	30, 667, 700	27, 174, 400	30, 436, 100	<b>32, 366, 100</b>
Cotton goods:	128, 944, 600	110, 904, 800	99, 877, 500	87, 544, 800	82, 891, 700
French product	14, 880, 300	14, 050, 400	15, 729, 500	12, 757, 800	18, 004, 600
Foreign product	14, 108, 300 28, 988, 600	16, 906, 800 86, 957, 200	15, 768, 100	13, 510, 000	12, 355, 600
Leather goods:	' '		81, 497, 600	26, 267, 300	25, 860, 200
French product	<b>26</b> , 228, 7 <b>60</b>	28, 409, 600	33, 446, 900	30, 397, 500	29, 200, 900
Foreign product	2, 952, 900 29, 181, 600	3, 184, 500 31, 594, 100	4, 149, 500 37, 596, 400	4, 593, 400 84, <b>990</b> , 900	4, 998, 700 34, 199, 600
Coys, mercery, and fancy articles:	1	) ' '			i oz, tos, uut
French product	<b>85, 666, 400</b> 2, 084, 400	35, 627, 800	34, 952, 300	84, 063, 800	30, 339, 60
Total	37, 750, 800	1, 563, 300 37, 191, 100	1, 814, 200 36, 766, 500	2, 065, 100 36, 148, 900	1, 679, 100 82, 018, 700
Prepared hides and skins (leather):	! ' '	1	!	' '	,
French product	18, 450, 800 2, 316, 000	19, <b>64</b> 7, 400 2, 875, 700	17, 273, 500 2, 393, 200	14, 976, 800	15, 884, 60
Foreign product	20, 760, 800	22, 528, 100	19, 666, 700	2, 007, 200 16, 984, 000	2, 277, 400 18, 142, 000
fewelry and jeweler's ware:			1		•
French product	11, 734, 400	9, 785, 100 6, 060, 200	11, <b>676</b> , 500 4, 381, 100	10, 325, 500 3, 088, 000	12, 409, 90
Foreign product	21, 480, 900	15, 845, 300	16, 057, 600	13, 413, 500	3, 917, 900 16, 327, 800
Cools and hardware:	10 164 000	10 000 000		' '	' '
French product	19, 164, 900 7, 990, 200	19, 029, 800 7, 546, 300	13, 625, 800 7, 469, 100	13, 896, 000 6, 774, 300	11, 251, 900 6, 986, 600
Total	27, 155, 100	26, 576, 100	21, 094, 900	20, 670, 300	18, 288, 50
Clothing (linen and other): French product	17, 196, 800	18, 606, 500	16, 617,300	17 505 100	10 004 504
Foreign product	1, 293, 100	984, 800	694, 800	17, 505, 100 598, 300	16, 694, 506 617, 606
Total	18, 489, 400	14, 590, 800	17, 312, 100	18, 108, 400	17, 312, 10
Chemical products: French product	8, 627, 100	9, 148, 200	8, 839, 400	9, 206, 100	9, 418, 40
French productEoreign product	96, 500	847, 400	579, 000	636, 900	1, 254, 50
Total	8, 723, 600	9, 495, 600	9, 418, 400	9, 843, 000	10, 672, 90
French product	5, 211, 000	4, 988, 700	4, 825, 000	4, 400, 400	4, 014, 400
Foreign product	1, 910, 700	2, 017, 200	2, 200, 260	3, 319, 600	2, 528, 300
Total	7, 121, 700	7, 005, 900	7, 025, 200	7, 720, 000	6, 542, 70
French product	10, 074, 600	10, 036, 000	11, 348, 400	10, 730, 800	10, 151, 80
Foreign product	984, 300	829, 900	868, 500	791, 300	1, 022, 900
Total	11, 058, 900	10, 865, 900	12, 216, 900	11, 522, 100	11, 174, 70
French product	11, 657, 200	11, 251, 900	11, 500, 000	10, 151, 800	8, 974, 50
Foreign product	907, 100 12, 564, 300	810,600	849, 200	1, 042, 200	965, 00
Clocks and watches:	' '	12, 062, 500	12, 429, 200	11, 194, 000	9, 939, 50
French product.		3, 377, 500	3, 358, 200	3, 338, 900	8, 123, 100
Foreign product	8, 126, 600 6, 407, 600	2, 933, 600 6, 311, 100	2, 624, 800 5, 983, 000	2, 393, 200 5, 782, 100	2, 087, 900 5, 211, 000
Woolen yarn and thread:			1		, v, 211, VV
French product	6, 040, 900		7, 662, 100	5, 519, 800	5, 172, 400
Foreign product Total	135, 100 <b>6, 176, 000</b>	115, 800 7, 237, 500	270, 200 7, 982, 300	212, 800 5, <b>732</b> , 100	154, 400 5, 326, 800
Tashions and artificial flowers:					
Foreign product		4, 805, 700	8, 144, 600	6, 909, 400	<b>7, 063</b> , 800
Total .	7, 237, 500	1, 949, 300 6, 755, 000	19, 300 8, 163, 900	19, 300 <b>6, 928, 70</b> 0	19, 300 <b>7, 083</b> , 100
Linen and hempen yarn:	1	' '	1		
French product	<b>8</b> , 010, 800 1, 158, 000	3, <b>609</b> , 100 1, 503, 800	2, 451, 100 1, 293, 100	1, 278, 800 1, 138, 700	1,061,500
Total	4, 168, 800	5, 172, 400		2, 412, 500	1, 080, 800 2, 142, 300

FRANCE-Continued.

exported—Continued.

1878.	1879.	1880.	1881.	1882.	1888.	1584.	1885.
<b>Dollars. 98, 998, 800 82, 202, 600 131, 201, 400</b>	<b>Dollars.</b>	Dollars.	Dollars.	<i>Dollars</i> .	Dollars.	<b>Dollars.</b>	Dollars.
	108, 716, 900	118, 911, 600	122, 304, 100	121, 165, 400	113, 059, 400	109, 894, 200	102, 463, 700
	81, 801, 100	24, 922, 200	88, 677, 200	84, 257, 500	27, 830, 600	81, 748, 500	24, 993, 500
	140, 018, 000	143, 833, 800	160, 981, 300	155, 422, 900	140, 890, 000	141, 642, 700	127, 457, 200
60, 370, 400	59, 604, 900	71, 448, 600	69, 615, 100	77, 566, 700	71, 429, 800	64, 519, 900	68, 709, 800
8, 356, 900	11, 695, 800	12, 601, 500	14, 687, 300	13, 297, 700	12, 911, 700	11, 830, 900	9, 785, 100
68, 727, 300	71, 890, 700	84, 050, 100	84, 302, 400	90, 864, 400	84, 841, 000	76, 850, 800	78, 494, 400
48, 809, 700	43, 753, 100	45, 219, 900	47, 804, 300	55, 912, 100	58, 181, 600	45, 702, 400	44, 756, 700
28, 950, 000	30, 571, 20 <sub>0</sub>	35, 887, 400	25, 860, 200	21, 078, 900	21, 056, 300	20, 303, 600	13, 394, 200
77, 759, 700	74, 824, 800	81, 107, 300	72, 664, 500	77, 586, 000	79, 187, 900	66, 006, 000	58, 150, 900
10, 904, 500	12, 296, 200	15, 266, 300	17, 422, 600	18, 875, 400	17, 427, 900	17, 563, 000	19, 724, 600
12, 294, 100	19, 531, 600	21, 480, 900	23, 603, 900	24, 839, 900	24, 839, 100	22, 581, 000	21, 230, 000
28, 198, 600	81, 767, 800	36, 747, 200	40, 626, 500	48, 714, 500	42, 267, 000	40, 144, 000	40, 954, d00
<b>30</b> , 918, 600	28, 621, 900	81, 632, 700	32, 617, 000	80, 204, 500	27, 386, 700	25, 321, 600	25, 939, 200
5, 114, 500	5, 183, 800	5, 539, 100	3, 705, 600	4, 381, 100	1, 910, 700	1, 794, 900	1, 215, 900
<b>36</b> , 033, 100	83, 755, 700	87, 171, 800	36, 322, 600	84, 585, 600	29, 297, 400	27, 116, 500	27, 155, 100
30, 262, 400	33, 022, 300	85, 724, 800	84, 778, 600	24, 993, 500	25, 860, 200	22, 870, 500	22, 754, 700
1, 601, 900	2, 354, 600	2, 026, 500	2, 586, 200	2, 817, 800	2, 884, 400	1, 891, 400	2, 103, 700
31, 864, 300	85, 376, 900	87, 750, 800	87, 864, 800	27, 811, 300	27, 744, 600	24, 761, 900	24, 858, 400
16, 405, 600	18, 547, 300	17, 775, 300	19, 838, 600	19, 975, 500	20, 458, 000	21, 191, 400	20, 129, 900
1, 601, 900	2, 004, 200	2, 006, 200	2, 199, 400	2, 817, 800	2, 393, 200	2, 566, 900	2, 123, 000
18, 006, 900	20, 551, 500	19, 781, 500	21, 538, 000	22, 793, 300	22, 851, 200	23, 758, 300	22, 252, 900
12, 023, 900	9, 688, 600	10, 557, 100	13, 124, 000	12, 795, 900	15, 478, 600	14, 146, 900	8, 279, 700
3, 898, 600	4, 940, 800	6, 060, 200	8, 414, 800	10, 499, 200	8, 299, 000	6, 008, 800	8, 492, 000
15, 922, 500	14, 629, 400	16, 617, 300	21, 538, 800	23, 295, 100	23, 777, 600	20, 245, 700	16, 771, 700
13, 066, 100	13, 085, 400	12, 776, 600	13, 625, 800	12, 878, 100	16, 173, 400	12, 062, 500	11, 867, 700
6, 272, 500	6, 214, 600	7, 913, 000	8, 028, 800	9, 379, 800	8, 665, 700	6, 716, 400	5, 674, 200
19, 338, 600	19, 300, 000	20, 689, 600	21, 654, 600	22, 252, 900	24, 839, 100	18, 778, 900	17, 041, 900
16, 436, 400	13, 066, 100	15, 497, 900	17, 910, 400	14, 260, 700	12, 506, 400	14, 455, 700	13, 529, 300
579, 600	540, 400	772, 000	328, 100	851, 200	772, 000	521, 100	402, 500
15, 015, 400	13, 606, 500	16, 269, 900	18, 238, 500	15, 111, 900	13, 278, 400	14, 976, 800	14, 011, 800
9, 804, 400	11, 251, 900	10, 943, 100	11, 348, 400	12, 660, 800	12, 216, 900	12, 101, 100	10, 113, 200
1, 100, 100	1, 254, 500	2, 335, 300	2, 586, 200	2, 702, 000	2, 393, 200	1, 300, 100	1, 196, 600
10, 904, 500	12, 506, 400	13, 278, 400	13, 934, 600	15, 362, 800	14, 610, 100	13, 401, 200	11, 309, 800
4, 226, 700	4, 439, 000	4, 612, 700	5, 018, 000	5, 404, 000	5, 461, 900	6, 037, 400	5, 230, 300
8, 010, 800	4, 168, 800	4, 728, 500	4, 496, 900	4, 805, 700	5, 577, 700	5, 175, 900	8, 763, 500
7, 237, 500	8, 607, 800	9, 341, 200	9, 514, 900	10, 209, 700	11, 039, 600	11, 213, 300	8, 993, 800
9, 360, 500	9, 225, 400	10, 597, 700	10, 730, 800	10, 093, 900	10, 171, 100	9, 109, 600	8, 646, 400
714, 100	907, 100	982, 300	1, 080, 800	1, 061, 500	887, 800	849, 200	968, 500
10, 074, 600	10, 132, 500	11, 580, 000	11, 811, 600	11, 155, 400	11, 058, 900	9, 958, 800	9, 514, 900
8, 356, 900	7, 372, 600	7, 970, 900	7, 623, 500	7, 546, 300	7, 797, 200	7, 063, 800	6, 870, 800
1, 003, 600	1, 177, 300	1, 235, 200	1, 293, 100	1, 235, 200	1, 158, 000	1, 100, 100	926, 400
9, 360, 500	8, 549, 900	9, 206, 100	8, 916, 600	8, 781, 500	8, 955, 200	8, 163, 900	7, 797, 200
3, 261, 700	2, 95., 900	3, 300, 300	3, 165, 200	4, 400, 400	3, 667, 000	8, 261, 700	8, 788, 800
1, 930, 000	2, 123, 000	2, 605, 500	8, 088, 000	4, 670, 600	8, 744, 200	8, 454, 700	3, 569, 500
5, 191, 700	5, 075, 900	5, 905, 800	6, 253, 200	9, 071, 000	7, 411, 200	6, 716, 400	7, 358, 300
7, 179, 600	8, 434, 100	9, 514, 900	7, 353, 300	7, 700, 700	6, 677, 800	6, 283, 900	6, 928, 700
173, 700	231, 600	808, 800	250, 900	808, 800	289, 500	424, 600	231, 600
7, 353, <b>2</b> 00	8, 665, 700	9, 823, 700	7, 604, 200	8, 009, 500	6, 967, 300	6, 658, 500	7, 160, 300
5, 828, 600 19, 300 5, 847, 900	5, 809, 300 19, 800 5, 828, 600	6, 258, 200 19, 300 6, 272, 500	8, 704, 300 96, 500 8, 800, 800	7, 449, 800 7, 449, 800	7, 005, 900 7, 005, 900	5, 846, 100 5, 846, 100	5, 191, 700 19, 800 5, 211, 000
965, 000	1, 285, 200	1, 158, 000	1, 008, 600	849, 200	810, 600	1, 061, 500	1, 698, 400
1, 254, 500	1, 188, 700	2, 547, 600	2, 875, 700	8, 802, 100	8, 150, 500	6, 921, 400	2, 084, 400
2, 219, 500	2, 873, 900	8, 703, 600	8, 879, 800	4, 651, 300	8, 961, 100	4, 982, 900	3, 782, 800

#### FBANCE-Continued.

Value of principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Ciasues of flax and hemp:	Dollare.	Dollars.	Dollars.	Dollars.	Dollars.
French product	4, 940, 800	5, 616, 300	6, 851, 500	6, 118, 100	6, 079, 50
Foreign product	3, 995, 100	8, 647, 700	2, 566, 900	1, 831, 700	1, 881, 70
Total	8, 935, 900	9, 264, 000	9, 418, 400	7, 449, 800	7, 411, 20
Extracts of dye-woods:	, , , , , , , ,	3,233,333	.,,	1, ==1, ===	, , , , , ,
French product,					
Foreign product					
Total					
Prepared medicines:					
French product	2, 837, 100	2, 200, 200	1, 949, 300	1, 775, 600	1, 883, 50
Foreign product	77, 200	57, 900	88, 600	57, 900	77, 20
Total	2, 914, 800	2, 258, 100	1, 987, 900	1, 833, 500	1, 910, 70
Porfumery:	9 977 400	1 850 000	1, 389, 600	1 177 900	1 404 10
French product	2, 277, 400 115, 800	1,659,800	88, 600	1, 177, 300 38, 600	1, 486, 10 38, 60
Total	2, 893, 200	57, 900 1, 717, 700	1, 428, 200	1, 215, 900	1, 524, 70
Candles:	2, 000, 200	1, 711, 100	1, 420, 200	1, 210, 800	1,022,10
French product	1, 351, 000	1, 447, 500	1, 563, 800	733, 400	482, 50
Foreign product	482, 500	154, 400	178, 700	656, 200	1, 582, 60
Total	1, 833, 500	1, 601, 900	1, 737, 000	1, 389, 600	2, 065, 10
late of felt, linen, and silk:	2,000,000			2,000,000	
French product	2, 128, 000	1,794,900	1, 891, 400	2, 045, 800	2, 335, 30
Foreign product	135, 100	77, 200	115, 800	115, 800	77, 20
Total	2, 258, 100	1, 872, 100	2, 007, 200	2, 161, 600	2, 412, 50
Solors:	İ	' '	ĺ		
French product	2, 007, 200	2, 084, 400	1, 987, 900	2, 007, 200	1, 949, 30
Foreign product	193, 000	193, 000	173, 700	115, 800	115, 80
Total	<b>2, 200,</b> 200	2, 277, 400	2, 161,600	2, 123, 000	2, 065, 10
Ausical instruments >	1		0.530.000		
French product	2, 238, 800	2, 489, 700	2, 528, 300	2, 296, 700	2, 296, 70
Foreign product	37, 900	38, 600	57, 900	57, 900	37, 90
Total	2, 296, 700	2, 528, 300	2, 586, 200	2, 354, 600	<b>2</b> , 354, 60
Cotton thread and yarn:	1 500 400	1 000 000	789 700	759 700	A17 A0
French product	1, 582, 600 810, 600	1, 022, 900 829, 900	752, 700 1, 215, 900	752, 700 1, 119, 400	617, 60 656, 20
Total	2, 893, 200	1, 852, 800	1, 968, 600	1, 872, 100	1, 278, 80
Fire-arms and weapons:	2, 000, 200	1, 000, 000	1, 500, 000	1,012,100	1, 210, 80
French product	1, 119, 400	2, 200, 200	2, 566, 900	984, 300	849, 20
Foreign product	1, 100, 100	1,061,500	1, 524, 700	772, 000	907, 10
Total	2, 219, 500	8, 261, 700	4, 091, 600	1, 756, 300	1, 756, 80
Soaps:	2,223,333	3,332,100	1 2, 332, 333		
French product	1, 814, 200	1, 794, 900	1, 717, 700	1, 891, 400	1, 891, 40
Foreign product		19, 300	19, 300	19, 300	19, 80
Total	1, 814, 200	1, 814, 200	1, 737, 000	1, 910, 700	1, 910, 70
l'obacco, manufactured :	1		i	1	İ
French product	2, 509, 000	115, 800	463, 200	463, 200	347, 40
roreign product	1,044,000	6, 812, 900	4, 979, 400	1, 080, 800	819, 20
Total	4, 053, 000	6, 928, 700	5, 442, 600	1, 544, 000	1, 196, 60
Parisian articles:		0.440.000			1
French product	1, 949, 800	2, 142, 300	1, 659, 800	1, 930, 000	1, 794, 90
Foreign product		0.140.000	9.000		3 504 00
Total	1, 949, 300	2, 142, 300	1, 659, 800	1, 930, 000	1, 794, 90
	378, 492, 300	362, 694, 900	! 285 410 500	325, 841, 900	312, 479, 20
French product		105, 079, 200	97, 693, 000	90, 092, 400	90, 869, 70
Foreign product	483, 851, 000	467, 774, 100	463, 103, 500	415, 934, 300	402, 848, 90
LU other ariicles:	120,001,000		200, 200, 000	1220, 002, 000	100,010,00
French product	64, 553, 600	74, 739, 600	85, 383, 600	78, 898, 000	77, 621, 90
Foreign product		16, 974, 000	16, 192, 300	24, 337, 900	17, 216, 70
Total	87, 872, 900	91, 713, 600	101, 575, 900	103, 235, 900	94, 838, 60
Frand total exports:		}	]		,,
French product	726, 948, 900	714, 312, 300	747, 411, 800	690, 471, 500	663, 205, 93
Foreign product	208, 755, 000		180, 339, 200		180, 358, 50
l'otal	980, 708, 900	907, 505, 800	927, 751, 000	877, 667, 500	848, 564, 40

FRANCE—Continued.

exported—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
4, 709, 200	5, 056, 600	5, 404, 000	4, 535, 500	4, 859, 800	8, 802, 100	2, 721, 800	2, 489, 70
1, 293, 110	1, 679, 100	1, 872, 100	2, 007, 200	2, 125, 000	1, 582, 600	1, 138, 700	810, 60
6, 002, 800	6, 735, 700	7, 276, 100	6, 542, 700	6, 484, 800	5, 884, 700	8, 860, 000	8, 200, 30
	185, 100	115, 800	154, 400	135, 100	96, 500	57, 900	2, 663, 40
•••••••	8, 493, 800	8, 917, 900	8, 647, 700	8, 898, 600	8, 879, 800	8, 242, 400	77, 20
	<b>3, 628, 400</b>	4, 033, 700	8, 802, 100	4, 433, 700	8, 975, 800	8, 800, 800	2, 740, 60
2, 007, 200	2, 045, 800 77, 200	2, <b>873, 900</b> 77, 200	<b>2, 431, 800</b> 77, 200	2, 470, 400 193, 000	2, 431, 800 243, 000	2, 470, 400 19, 300	2, 180, 90 270, 20
2, 007, 200	2, 123, 000	2, 451, 100	2, 509, 000	2, 663, 400	2, 674, 800	2, 489, 700	2, 451, 10
1, 447, 500	1, 524, 700	1, 524, 700	1, 466, 800	1, 505, 400	1, 601, 900	1, 949, 800	1, 544, 00
57, 900	88, 600	77, 200	57, 900	77, 200	57, 900	77, 200	77, 20
1, 505, 400	1, 563, 800	1, 601, 900	1, 524, 700	1, 582, 600	1, 659, 800	2, 026, 500	1, 621, 20
208, 800	847, 400	<b>82</b> 8, 100	828, 100	866, 700	886, 000	540, 400	752, 70
1, 851, 000	1, 278, 800	1, 293, 100	1, 351, 000	1, 022, 900	1, 254, 500	1, 447, 500	1, 119, 40
1, 659, 800	1, 621, 200	1, 621, 200	1, 679, 100	1, 389, 600	1, 640, 500	1, 987, 900	1, 872, 10
2, 200, 200	1, 949, 800	1, 756, 800	1, 968, 600	2, 740, 600	1, 640, 500	1, 737, 000	1, 158, 0
77, 200	57, 900	77, 200	154, 400	231, 600	115, 800	96, 600	96, 5
2, 277, 400	2, 007, 200	1, 833, 500	2, 123, 000	2, 972, 200	1, 756, 800	1, 833, 500	1, 254, 5
2, 161, 600	2, 161, 600	2, 161, 600	1, 814, 200	1, 756, 800	1, 773, 600	1, 582, 600	1, 505, 4
115, 800	173, 700	212, 300	178, 700	178, 700	193, 000	154, 400	154, 4
2, 277, 400	2, 885, 800	2, 373, 900	1, 987, 900	1, 930, 000	1, 968, 600	1, 737, 000	1, 659, 8
1, 987, 900	1, 930, 000	2, 219, 500	2, 007, 200	1, 987, 900	1, 756, 800	1, 582, 600	1, 889, 6
280, 500	96, 500	115, 800	135, 100	115, 800	154, 400	115, 800	57, 9
2, 277, 400	2, 026, 500	2, 335, 800	2, 142, 300	2, 103, 700	1, 910, 700	1, 698, 400	1, 447, 5
463, 200	463, 200	540, 400	482, 500	521, 100	424, 600	448, 900	405, B
1, 428, 200	1, 910, 700	1, 830, 000	8, 300, 300	2, 933, 600	2, 806, 000	1, 138, 700	965, 0
1, 891, 400	2, 373, 900	2, 470, 400	8, 782, 800	3, 454, 700	2, 734, 600	1, 582, 600	1, 870, 8
1, 235, 200	1, 235, 200	1, 640, 500	984, 300	405, 300	1, 022, 900	772, 000	1, 312, 4
<b>30</b> 8, 800	1, 100, 100	1, 196, 600	984, 300	8 <b>6</b> 8, 500	887, 800	81 <b>0, 6</b> 00	656, 2
1, 544, 600	2, 335, 300	2, 837, 100	1, 968, 600	1, 273, 800	1, 910, 700	1, 582, 600	1, 968, 6
2, 026, 500 19, 800	1, 756, 300	I, 601, 900 19, 800	1, 833, 500	1, 640, 500 38, 600	1, 447, 500	1, 428, 200	1, 563, 8
2, 045, 800	1, 756, 300	1, 621, 200	1, 883, 500	1, 679, 100	1, 447, 500	1, 428, 200	1, 563, 8
347, 400	828, 100	289, 500	828, 100	· 405, 300	308, 800	250, 900	231, 6
819, 200	965, 000	868, 500	868, 500	1, 022, 900	1, 273, 800		
1, 196, 600	1, 293, 100	1, 158, 000	1, 196, 600	1, 428, 200	1, 582, 600		
1, 003, 600	1, 196, 600	2, 026, 500	463, 200	173, 700	135, 100	250, 900	
1, 003, 600	1, 196, 600	2, 026, 500	463, 200	173, 700	135, 100	250, 900	
•			·	•		, i	905 050 5
06, 078, 700 83, 665, 500	302, 566, 100 104, 873, 200	332, 232, 200 118, 606, 500	339, 481, 700 117, 439, 300	342, 030, 600 111, 844, 900	834, 990, 100 122, 301, 100		
<b>29</b> , 744, 200	407, 439, 300	450, 838, 700	456, 521, 000	453, 875, 500	457, 291, 200		
72, 115, 200	61, 856, 800	68, 997, 500	69, 364, 200	71, 020, 000	68, 764, 900	70, 522, 200	69, 324, 6
27, 739, 500	25, 212, 500	48, 424, 100	82, 560, 800	45, 498, 100	24, 379, 400		25, 380, 8
99, 854, 700	87, 068, 800	112, 421, 600	101, 924, 500	116 518, 100	93, 144, 800	98, 165, 600	94, 705, 1
13, 682, 100	617, 868, 000	664, 794, 800	683, 992, 000	686, 600, 000	662, 698, 100		
79, 876, 000	206, 164, 800	225, 379, 000	227, 740, 000	232, 892, 000	217, 710, 000		
<b>93</b> , <b>5</b> 58, 100	824, 032, 800	890, 173, 800	911, 732, 000	919, 492, 000	880, 408, 100	814, 151, 200	763, 469, (

#### GERMANY.

### Value of imports (merchandise only) for home

Countries.	1873.	1874.	1875.	1876.	1877.	1878.
Russia	Dollare.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Norway and Sweden Denmark						
Hanse Towns		**********				
United KingdomFrance and Algeria	1				ļ	}
France and Algeria			••••••			
Switzerland				<b> </b>		
United States						
Central and South America. Africa (exclusive of Algeria) Asia (exclusive of Asiatic Russia and Turkey)			 			
Australasia All other						
TOTAL IMPORTS						

## Value of domestic exports (merchandise

Countries.	1878.	187 <b>4.</b>	1875.	1876.	1877.	1878.
_	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Russia Norway and Sweden						••••
Denmark						
Hanse Towns Holland						
Belgium			•••••			
United Kingdom France and Algeria						
Spain and Portugal						
Switzerland Austria-Hungary Italy						
		!		Ĭ		\$
United States						L
Asia						
Australasia All other			j			<b>}</b>
TOTAL EXPORTS						

GERMANY.

consumption from the principal countries.

1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	80, 071, 054	79, 297, 078	<b>9</b> 2, 988, 504	97, 610, 94 <b>0</b>	98, 415, 880	82, 102, 922
	5, 479, 950	6, 095, 180	6, 817, 986	6, 549, 284	7, 473, 200	7, 562, 212
	6, 441, 708	5, 954, <del>99</del> 8	5, 601, 806	5, 541, 592	5, 753, 888	5, 136, 324
	116, 578, 630	136, 110, 296	131, 375, 286	132, 839, 186	132, 593, 846	115, 538, 814
	45, 198, 818	<b>58, 872, 632</b>	64, 522, 038	<b>56</b> , 870, 188	56, 177, 996	51, 162, 690
•••••	46, 823, 844	51, 109, 548	56, 738, 724	64, 897, 126	69, 737, 808	66, 623, 816
	83, 558, 706	86, 948, 540	94, 487, 904	114, 137, 680	120, 786, 210	107, 275, 484
	58, 501, 352	60, 142, 600	58, 200, 520	59, 021, 858	58, 040, 584	51, 839, 018
	<b>3, 126, 13</b> 0	2, 929, 364	8, 074, 722	8, 984, 120	3, 809, 904	1, 483, 206
	83, 423, 292	36, 867, 390	41, 709, 024	42, 671, 972	36, 088, 654	82, 586, 722
	95, 697, 658	103, 099, 220	119, 758, 030	113, 171, 380	101, 326, 834	91, 814, 412
•••••	15, 429, 938	13, 590, 312	12, 623, 750	14, 775, 992	19, 734, 722	17, 957, 560
	43, 912, 428	42, 058, 646	27, 256, 236	32, 320, 400	29, 803, 550	28, 979, 594
	13, 328, 400	7, 210, 448	14, 095, 550	15, 597, 806	18, 631, 592	17, 720, 842
***********	4, 081, 938	8, 054, 254	8, 483, 844	2, 618, 714	8, 173, 730	2, 868, 978
	15, 872, 696	6, 949, 600	'8, <b>972, 6</b> 00	9, 431, 940	7, 979, 188	7, 239, 246
	1, 858, 304	1, 348, 508	841, 330	1, 181, 908	1, 379, 448	2, 186, 744
•••••	2, 841, 754	8, 645, 386	2, 273, 146	4, 038, 596	4, 214, 170	8, 228, 256
	671, 326, 600	705, 194, 000	744, 821, 000	776, 760, 600	776, 070, 704	700, 786, 240

only) to the principal countries.

1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	50, 798, 244	43, 596, 602	45, 851, 652	43, 799, 378	88, 431, 286	34, 293, 420
	14, 595, 588	12, 855, 532	14, 890, 232	17, 128, 146	17, 854, 249	16, 607, 164
	11, 648, 672	11, 249, 846	13, 675, 718	14, 622, 958	14, 762, 188	11, 939, 848
	156, 187, 262	150, 029, 012	163, 086, 168	172, 588, 080	183, 307, 838	164, 955, 182
	54, 078, 836	57, 085, 490	61, 693, 448	60, 947, 040	54, 506, 998	55, 869, 270
	<b>89, 106, 494</b>	40, 212, 718	40, 751, 550	41, 463, 884	88, 684, 758	85, 087, 110
	104, 139, 994	106, 925, 784	122, 058, 062	131, 458, 586	122, 343, 186	107, 366, 686
	67, 744, 320	75, 872, 734	81, 298, 182	74, 592, 532	67, 349, 002	59, 071, 862
	5, 593, 714	8, 078, 196	9, 630, 194	10, 502, 464	11, 257, 876	9, 637, 618
	40, 146, 554	40, 277, 692	41, 360, 830	40, 997, 166	42, 434, 686	84, 457, 640
	69, 888, 682	75, 217, 758	77, 616, 560	80, 004, 652	77, 319, 536	67, 703, 622
•••••	12, 395, 754	16, 856, 350	17, 579, 870	20, 026, 748	20, 642, 216	20, 204, 756
	44, 548, 840	46, 434, 990	45, 734, 794	34, 238, 442	29, 561, 266	86, 479, 710
	5, 925, 724	7, 554, 355	8, 872, 878	10, 279, 458	11, 497, 166	7, 926, 114
•••••	1, 239, 504	1, 276, 632	1, 198, 806	1, 549, 856	1, 775, 480	1, 717, 130
	6, 475, 266	7, 010, 528	5, 788, 780	6, 451, 704	8, 537, 536	8, 187, 200
	426, 020	791, 112	1, 647, 456	5, 347, 080	1, 502, 970	1, 891, 380
	4, 716, 732	7, 700, 669	6, 603, 860	16, 795, 426	21, 497, 966	7, 856, 682
	689, 105, 200	708, 526, 000	759, 839, 000	778, 788, 600	762, 766, 200	680, 751, 400

#### GERMANY—Continued.

# Quantities and value of imports

Articles.	1	878.	1874.	1875.	1876.	1877.
	umber			1, 780, 946	2, 259, 113	2, 443, 121
Coal (u	ollarsons	• • • • • • • • • • • • • • • • • • • •		<b>83, 431, 384 2, 063, 930</b>	<b>38</b> , 069, 052 <b>2</b> , 320, 768	45, 167, 878 2, 233, 886
( )	ounds	• • • • • • • • • • • • • • • • • • • •	Į.	8, <b>929</b> , 000 21, 650, 000	7, 980, 600 234, 080, 000	7, 711, 200
Couge	ollars	• • • • • • • • • • • • • • • • • • • •		45, 458, 000 16, 280	45, <b>696</b> , 000 14, 960	210, 760, 000 40, 936, 000 14, 080
				6, 687, 800	5, 807, 200	4, 712, 400
	oundsollars			137, 700, 000 48, 314, 000	371, 800, 000 48, 409, 200	344, 300, 000 43, 316, 000
Cotton worm	ounds	• • • • • • • • • • • • • • • • • • • •		45, 980, 000 11, 376, 400	51, 260, 000 11, 495, 400	40, 260, 000 8, 877, 400
	oilars			4, 054, 140	3, 486, 700	3, 172, 540
	ons			<b>52, 910 10, 305, 400</b>	36, 300 7, 854, 000	75, 900 14, 779, 800
Grain and florin	ns	•••••		2, 870, 500	8, 327, 500	4, 018, 850
ζα	į	••••	!	99, 484, 000	141, 520, 000	170, 408, 000
	oundsoilars	• • • • • • • • • • • • • • • • • • • •		<b>53, 570, 600 6, 949, 600</b>	73, 647, 000 9, 044, 000	79, 031, 250 8, 639, 400
Gnano Šu	ons			113, 850	152, 350	134, 200
. (4		• • • • • • • • • • • • • • • • • • • •	••••	5, 902, 400	7, 901, 600	' <b>5</b> , 807, 200
		• • • • • • • • • • • • • • • • • • • •		705, C00 5, 593, 000	704, 227 6, 711, 600	666, 726 6, 354, 600
Widos war S P	ounds		1	06, 040, 000	106, 700, 000	98, 760, 000
, d	ollars	• • • • • • • • • • • • • • • • • • • •		20, 457, 052	18, 326, 952	15, 831, <b>76</b> 0
	umberollars	• • • • • • • • • • • • • • • • • • • •	•••••	68, 919	87, 071	44,701
Tadica SP	ounds	• • • • • • • • • • • • • • • • • • • •	,	13, 113, 800 3, 190, 000	16, 588, 600 8, 883, 000	8, 520, 400 2, 860, 000
marko	ollars	• • • • • • • • • • • • • • • • • • • •	•••••	4, 831, 400	5, 878, 600	4, 022, 200
	ns			666, 983	628, 265	579, 513
(7)	ollarsonnds			12, 944, 800 97, 020, 000	10, 186, 400 126, 500, 000	8, 282, 400 122, 10 <b>0,</b> 000
	oliars			2, 927, 400	3, 831, 800	3, 427, 200
	ns			e7, 945	29, 920	43, 131
C +	ollars			5, 317, 396 98, 450	4, 182, 752 75, 460	5, 367, 376 225, 740
	ollare			11, 271, 680	<b>8, 608, 46</b> 0	14, 399, 000
Lineced oild				4, 046, 000	4, 736, 200	3, 831, 800
Petroleumd	shallo			15, 874, 600 8, 008, 000	24, 752, 000 7, 997, 000	22, 681, 400 6, 985, 000
	ollare			25, 942, 000	31, 178, 000	27, 132, 000
	ounds			16, 500, 000	3, 080, 000	2, 420, 000
\ \frac{a}{a}	ollarsounds			790, 348 30, 580, 000	160, 412 26, 400, 000	140, 658 14, 520, 000
	ollars				2, 058, 700	1, 259, 020
Tobacco, leaf and manufact- 5 p	ounds			99, 000, 000	110, 440, 000	114, 840, 000
ured	ollars			17, 921, 400	19, 492, 200 13, 281, 628	18, <b>684, <b>66</b>6 14, 327, 600</b>
Wool SP	ounds			24, 300, 000	143, 000, 000	150, 700, 000
) d	ollars	• • • • • • • • • • • • • • • • • • • •		48, 314, 000	49, 504, 000	50, 456, 000
	ounda				33, 440, 000	29, 920, 000
Woolen clothd	ollarsollars			24, 514, 000 19, 123, 300	21, 229, 600 17, 714, 340	17, 826, 200   14, 363, 776
All other articlesd		• • • • • • • • • • • • • • • • • • • •	3		319, 163, 804	307, 823, 726
TOTAL IMPORTS					904, 899, 800	898, 259, <b>6</b> 60

GERMANY-Continued.

entered for consumption.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
2, 274, 228	1, 650, 818	1, 580, 287	1, 473, 791	1, 613, 632	1, 386, 098	1, 082, 752	778, 695
88, 734, 976	28, 110, 418	21, 129, 164	81, 242, 498	84, 099, 212	88, 409, 630	25, 992, 694	19, 731, 866
2, 128, 707	2, 087, 804	2, 269, 717	2, 153, 232	2, 304, 687	2, 401, 773	2, 532, 222	2, 619, 540
6, 426, 000	5, 404, 742	8, 429, 818	8, 718, 750	5, 721, 996	5, 450, 676	5, 739, 608	6, 446, 190
212, 190, 440	245, 300, 000	218, 240, 000	229, 020, 000	235, 620, 000	251, 640, 000	244, 420, 000	260, 476, 650
40, 222, 000	45, 220, 000	35, 879, 690	82, 225, 200	27, 534, 934	32, 607, 904	29, 088, 122	26, 710, 264
15, 511	14, 740	13, 530	12, 100	11, 660	12, 870	15, 180	14, 443
4, 712, 400	4, 141, 200	8, 952, 228	8, 540, 726	3, 424, 106	8, 609, 032	3, 782, 296	2, 973, 380
847, 600, 000	398, 200, 000	826, 920, 000	345, 620, 000	342, 980, 000	415, 800, 000	390, 720, 000	386, 271, 900
41, 412, 000	48, 314, 000	42, 455 892	41, 120, 926	42, 658, 644	49, 552, 076	48, 182, 624	44, 395, 104
40, 480, 000	47, 520, 000	28, 820, 000	36, 300, 000	39, 820, 000	48, 180, 000	48, 620, 000	45, 886, 050
8, 472, 900	10, 314, 920	9, 002, 588	10, 353, 238	12, 339, 110	13, 616, 932	13, 779, 724	11, 592, 582
2, 708, 440	8, 558, 100	8, 391, 024	4, 210, 220	5, 077, 730	5, 106, 528	5, 419, 022	5, 235, 524
64, 350	60, 500	40, 040	55,330	81, 620	74, 360	71, 720	62, 977
11, 138, 400	9, 758, 000	6, 907, 950	8, 612, 506	12, 181, 792	10, 933, 955	10, 549, 588	9, 524, 046
3, 668, 500	4, 174, 500	2, 085, 490	2, 393, 880	2, 621, 740	2, 739, 880	3, 332, 450	2, 738, 264
145, 656, 000	163, 744, 000	76, 160, 000	88, 551, 470	92, 577, 422	93, 075, 136	99, 740, 326	74, 005, 700
88, 861, 500	118, 298, 250	120, 893, 000	85, 002, 750	57, 109, 500	68, 439, 970	52, 548, 457	78, 614, 208
8, 806, 000	10, 210, 200	11, 695, 082	9, 174, 186	7, 024, 570	7, 016, 716	4, 816, 406	5, 984, 256
134, 750	133, 650	129, 140	125, 400	116, 913	80, 300	75, 130	67, 702
5, 831, 100	5, 212, 200	5, 026, 560	5, 424, 020	5, 566, 582	8, 474, 482	8, 249, 652	2, 156, 046
722, 689	641, 144	737, 187	854, 557	877, 000	867, 351	960, 046	1, 023, 675
6, 521, 200	5, 807, 200	6, 140, 400	6, 915, 090	6, 977, 446	7, 637, 896	7, 083, 118	7, 123, 816
110, 660, 000	189, 700, 000	119, 240, 000	121, 000, 000	124, 020, 000	141, 020, 000	148, 940, 000	156, 960, 279
18, 926, 950	24, 073, 938	19, 910, 842	20, 445, 152	20, 701, 954	23, 691, 948	25, 233, 236	23, 441, 856
66, 214	81, 873	59, 722	54, 703	64, 980	76, 636	74, 469	69, 763
12, 614, 000	15, 589, 000	12, 071, 836	11, 736, 732	13, 918, 716	14, 591, 542	15, 065, 162	13, 879, 048
8, 124, 000	8, 553, 000	2, 706, 000	8, 592, 380	2, 336, 180	8, 779, 600	4, 364, 100	4, 340, 763
4, 450, 600	5, 286, 000	4, 249, 266	5, 440, 918	5, 018, 468	5, 315, 492	5, 752, 698	6, 046, 896
503, 789	408, 260	250, 420	269, 060	811, 800	272, 602	290, 950	238, 111
6, 545, 000	6, 236, 000	8, 426, 248	8, 492, 888	4, 041, 478	8, 531, 920	3, 021, 648	2, 184, 602
116, 600, 000	132, 000, 000	163, 020, 000	155, 820, 000	168, 190, 000	165, 440, 000	134, 200, 000	127, 312, 070
8, 022, 600	8, 427, 200	8, 881, 066	8, 446, 478	8, 438, 140	8, 899, 592	2, 830, 534	2, 610, 622
47, 003	88, 175	27, 033	28, 724	85, 035	37, 953	43, 835	40, 955
5, 496, 848	4, 277, 336	8, 921, 288	4, 813, 512	5, 277, 412	5, 896, 888	5, 835, 522	5, 494, 466
167, 810	111, 100	47, 850	47, 630	44, 180	50, 050	56, 210	52, 982
10, 718, 460	8, 122, 940	5, 880, 028	5, 704, 860	5, 840, 044	5, 724, 876	5, 881, 694	5, 559, 680
4, 879, 200	3, 950, 800	4, 105, 976	4, 192, 608	4, 792, 368	5, 454, 008	4, 099, 788	4, 103, 356
17, 493, 000	11, 662, 000	11, 436, 376	13, 894, 678	11, 820, 032	13, 219, 948	16, 512, 916	16, 640, 484
7, 194, 000	7, 205, 000	6, 567, 000	7, 865, 000	8, 030, 000	7, 530, 600	8, 824, 140	8, 844, 255
24, 990, 000	24, 990, 000	24, 573, 976	27, 845, 744	80, 057, 496	31, 804, 878	88, 147, 450	26, 409, 430
2, 640, 000	8, 960, 000	8, 300, 000	8, 740, 000	5, 060, 000	4, 620, 000	4, 400, 000	5, 308, 758
139, 706	282, 050	195, 160	211, 820	282, 268	235, 144	193, 970	220, 864
8, 800, 000	8, 140, 000	5, 940, 000	5, 500, 000	4, 840, 000	4, 180, 000	8, 080, 000	2, 872, 894
718, 760	673, 540	415, 310	388, 654	825, 546	247, 044	135, 184	119, 998
<b>165</b> , 880, 000	186, 560, 000	24, 420, 000	47, 300, 000	65, 560, 060	68, 860, 000	77, 880, 000	86, 607, 301
<b>25</b> , 870, 800	26, 227, 600	5, 689, 890	8, 729, 840	14, 804, 076	12, 715, 150	14, 242, 158	15, 897, 190
<b>11</b> , 947, 600	25, 418, 400	8, 604, 652	8, 273, 594	9, 067, 563	9, 401, 238	10, 427, 018	8, 819, 404
<b>149</b> , 600, 000	203, 500, 000	149, 160, 000	170, 280, 000	194, 700, 000	200, 200, 000	282, 540, 000	217, 822, 170
<b>50</b> , 218, 000	63, 784, 000	49, 091, 546	46, 036, 840	48, 446, 090	47, 681, 654	52, 811, 962	39, 970, 434
83, 440, 000	41, 140, 000	32, 780, 000	84, 540, 000	35, 420, 000	86, 740, 000	41, 800, 000	42, 595, 749
18, 992, 400	22, 443, 400	22, 180, 180	20, 227, 144	19, 892, 992	19, 154, 002	22, 228, 248	22, 761, 868
11, 662, 000	15, 757, 028	5, 078, 682	4, 753, 336	3, 413, 396	2, 960, 482	2, 827, 916	2, 778, 412
287, 938, 860	297, 172, 988	261, 524, 882	271, 470, 872	288, 399, 418	292, 295, 231	298, 400, 116	287, 968, 654
836, 260, 600	898, 069, 200	671, 326, 600	705, 194, 000	744, 721, 000	776, 760, 600	776, 070, 400	700, 786, 240

#### GERMANY—Continued.

### Quantities and value

Articles.		1873.	1874.	1875.	1876.	1877.
Animals, horses excepted	Snumber	7 6		1, 780, 946	2, 259, 113	2, 443, 241
eritimate' itoraca erochicor	{ dollars			30, 095, 100	33, 112, 940	28, 890, 820
Beer		•••••		85, 140, 000	126, 060, 000	140, 800, 000
	dollars	•••••••		3, 332, 000 27, 280, 000	4, 879, 000	6, 474, 000
Butter	dollars	1		1 - 4 1	26, 180, 000 6, 806, 800	26, 840, 000 5, 807, 200
Coal	tons	•••••		5, 085, 300	5, 816, 470	5. 510, 120
Cotton				88, 000, 000		87, 780, 000
	{ dollars { pounds		1	12, 399, 800	9, 662, 800	11, 019, 400
Cotton yarn	dollars		••••••	17, 160, 000 5, 545, 400	19, 140, 000 5, 688, 200	20, 240, 000 5, 878, <b>G</b> 00
Cotton manufactures	. dollars	• • • • • • • • • • • • • • • • • • • •	•••••			
flax	{ tons } dollars			34, 420 6, 687, 800	25, 850 5, 593, 000	00, 095 10, 829, 000
lass and glassware	} tons			43, 890	44, 700	45, 760
, –	{ dollars			1, 479, 500	1, 245, 750	0 100 501
Frain, flour, potatoes, &c.	dollars		••••••	63, 784, 000	52, 859, 800	2, 182, 581 89, 964, 000
Hemp	tons		•••••	20, 020	20, 002	25, 850
_	dollara pounds			8, 022, 600 23, 820, 000	3, 022, 600	3, 903, 200
Hops	dollars			11, 566, 400	14, 300, 000 9, 282, 000	17, 820, 000   7, 611, 200
Iorses	number			28, 039	51,514	39, 116
201000	dollars			5, 831, 200	9, 805, 600	7, 449, 400
petruments, musical	dollars	••••••		<b>365, 420</b>	318, 340	378, 29
ron, pig	dollars			000, 120	210,010	310, 20
ron, unwrought	tons dollars			75, 350	89, 650	125, 400
ron, railroad bars	tons			134, 500	152, 240	247, 280
LON, Immirous Darg	dollars	••••••	•••••	5, 236, 000	5, 712, 000	8, 020, 60
lead, pig	tons			• • • • • • • • • • • • • • • • • • • •	86, 140	85, 79
eather, dressed, dyed, &c.	pounds		• • • • • • • • • • • •	12, 980, 000	13, 640, 000	18, 420, 000
eather goods, gloves ex-	dollars	••••••	•	6, 092, 800	6, 035, 680	5, 635, 840
cepted	.dollars			9, 893, 660	10, 806, 828	12, 209, 40
Aschinery of all kinds Dil, palm, linseed, &c	.dollars			7, 059, 080	6, 947, 220	8, 008, 70
,	pounds			R1 400 000	40 040 000	<i>20 50</i> 1 00
aper	dollars	• • • • • • • • • • • • • • • • • • • •	••••••	51, 480, 000	49, 940, 000	60, 500, 00
etroleum	pounds dollars		•••••••••	169, 400, 000 4, 760, 000	168, 300, 000 7, 282, 800	218, 900, 000 7, 830, 400
ilk manufactures	.dollars		••••••	13, 282, 780	13, 147, 120	18, 710, 88
Skins, dressed	pounds dollars		••••••	1, 154, 000	1, 100, 000	1, 100, 00
	pounds			45, 760, 000	51, 040, 000	80, 300, 000
pirits of all kinds	doliars	•••••••		2, 494, 240	2,491,860	3, 869, 88
agar, raw	dollars			1, 780, 240	126, 500, 000 7, 663, 600	90, 860, 000 5, 712, 000
ugar, refined	pounds dollars	••••••	<b>)</b>	13, 860, 000 1, 051, 960	19, 580, 000 1, 520, 820	28, 160, 000 2, 434, 740
obacco, leaf and manu-	pounds	••••••		29, 040, 000	22, 000, 000	17, 160, 00
factured	dollars		••••	6, 449, 800 44, 000, 000	4, 593, 800 43, 780, 000	8, 253, 46
Wool, raw	dollars	•••••				49, 060, 00
Voolen yarn	pounds dollars		1	8, 580, 000 6, 997, 200	7, 480, 000 5, 616, 800	9, 108, 00 6, 497, 40
Wool manufactures	dollars		•••••			
All other articles	dollars	*****	******	880, 664, 740	594, 521, 832	396, 941, 58

GERMANY-Continued.

of domestic exports.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
2, 274, 223	1, 650, 816	1, 580, 287	1, 473, 790	1, 603, 632	1, 386, 098	1, 082, 762	1, 838, 687
84, 201, 080	25, 475, 520	26, 225, 696	26, 264, 966	80, 246, 944	32, 652, 648	<b>30, 9</b> 26, 910	28, 984, 448
51, 800, 000	143, 000, 000	234, 300, 000	267, 740, 000	282, 700, 000	<b>293,</b> 040, 000		354, 253, 97
5, 902, 400	5, 569, 200	4, 565, 078	6, 374, 592	4, 895, 184	5, 389, 510	5, 116, 762	5, 919, 76;
27, 940, 000	26, 840, 000	27, 500, 000	25, 800, 000	25, 740, 000	27, 720, 000	29, 920, 000	31, 032, 06
5, 474, 000	5, 236, 000	<b>5, 043, 4</b> 58	4, 786, 180	4, 855, 676	4, 941, 832	4, 526, 760	5, 024, 18
6, 407, 830	6, 613, 200	7, <b>96</b> 0, 040 11, 194, 806	8, 204, 130 12, 895, 040	8, 394, 760 13, 622, 406	9, 573, 300 14, 502, 532	9, 698, 590 14, 688, 884	9, 597, 267 19, 183, 030
02, 960, 000	127, 600, 000	26, 180. 000	39, 160, 000	<b>88, 500, 000</b>	45, 820, 000	89, 820, 000	42, 203, 54
12, 257, 000	15, 470, 000	8, 403, 638	5, 084, 394	5, 192, 922	5, 884, 312	5, 846, 194	3, 925, 03
25, 520, 000	20, 900, 000	25, 520, 000	22, 280, 000	23, 540, 000	18, 040, 000	15, 840, 000	13, 900, 79
7, 140, 000	5, 878, 600	11, 824, 156	7, 847, 0 <b>9</b> 8	7, 683, 592	<b>6, 09</b> 2, 800	5, 375, 944	4, 400, 62
90 710	89, 270	12, 979, 568	14, 082, 936	17, 406, 841 57, 860	17, 412, 080	19, 123, 776	18, 984, 37
<b>39</b> , 710   <b>6</b> , 878, 200	6, 806, 800	25, 630 4, 422, 992	35, 090 5, 461, 624	9, 022, 342	46, 420 7, 183, 574	42, 020 <b>6, 447, 42</b> 0	84, 85 5, 690, 58
48, 400	55, 000	65, 560	70, 400	<b>76</b> , 340	87, 120	92, 510	90, 13
20, 100		7, 016, 954	7, 754, 516	9, 087, 792	9, 058, 042	8, 427, 818	7, 693, 82
2, 897, 500	2, 304, 725	1, 245, 603	753, 257	669, 984	867, 840	4:0,023	414, 60
B9, 250, 000	83, 300, 000	46, 290, 762	22, 993, 180	<b>23</b> , <b>36</b> 2, 794	25, 922, 960	16, 392, 726	12, 406, 78
21, 560	21, 010	25, 960	38, 069 4, 526, 998	26, 510 <b>8, 150</b> , 168	24, 099 3, 122, 184	22, 000	24, 62
<b>2, 808, 400</b>   <b>19, 800, 000</b>	2, 737, 000 17, 600, 000	3, <b>861</b> , 512 23, 980, 000	19, 140, 000	<b>26, 6</b> 20, 000	16, 500, 000	2, <b>896, 936</b> 25, 800, 000	8, 302, 01; 27, 943, 80;
6, 402, 200	5, 307, 400	7, 247, 576	5, 772, 690	17, 556, 070	8, 035, 356	8, 473, 276	5, 881, 45
45, 428	42, 526	17, 961	18, 867	18, ?25	19, 197	19, 034	15, 77
8, 639, 400	8, 092, 000	5, 984, 272	5, 888, 820	4, 988, 242	<b>5, 482, 568</b>	5, 206, 582	4, 816, 86
414 970	400 070	5, 150, 082	6, 634, 964	7, 922, 544	6, 189, 166	8, 613, 934	8, 091, 04
414, 870	433, 070	228, 580 4, 079, 796	269, 720 <b>4, 8</b> 82, <b>05</b> 6	205, 590 8, 836, 760	284, 850 4, 121, 446	253, 000 2, <b>9</b> 01, 220	235, 42 2, 236, 24
133, 100	254, 100	<b>267,</b> 080	151, 690	155, 540	172, 700	180, 290	192, 10
		11, 218, 606	12, 688, 794	26, 098, 445	26, 777, 902	26, 927, 482	19, 941, 78
227, 920 6, 902, 000	180, 840 5, 474, 000	<b>253, 22</b> 0 <b>6, 908, 426</b>	275, 770 7, 160, 230	205, 590 <b>5,</b> 756, 506	198, 820 4, 612, 202	155, <b>6</b> 50 <b>4, 039,</b> 812	181, 69. 4, 814, 46
52, 159	47, 804	50, 075	51, 597	41, 199	54, 655	54, 366	45, 83
		8, 455, 092	8, 226, 136	2, 693, 446	2, 949, 534	2, 526, 276	2, 997, 01
14. 800, 000 5, 688, 440	14, 740, 000 5, 878, 840	14, 520, 000 8, 284, 068	15, 620, 000 9, 170, 378	16, 720, 000 9, 886, 044	16, 280, 000 10, 484, 896	15, 840, 000 9, 944, 116	15, 221, 99 10, 407, 26
11, 757, 200	12, 816, 500	14, 812, 868	17, 440, 878	19, 435, 818	25, 045, 210	25, 772, 806	28, 540, 81
11, 896, 440	9, 284, 880	10, 261, 870	10, 864, 938	14, 566, 432	15, 614, 228	18, 463, 184	11, 869, 29
••••••		8, 844, 966	8, 568, 556	<b>3, 522, 638</b>	2, 782, 984	2, 547, 750	2, 459, 69
<b>66, 220, 000</b>	<b>65, 56</b> 0, 000	104, 720, 000	107, 360, 000	122, 100, 000	130, 020, 000	149, 160, 000	135, 304, 77
02 030 006	44, 880, 000	7, 648, 868 <b>2, 20</b> 0, <b>0</b> 00	8, 389, 484 1, <b>98</b> 0, 000	9, 095, 884 1, 760, 000	10, 097, 110	10, 507, 224	11, 820, 82
83, 920, 00 <b>0</b> 5, 164, <b>6</b> 00	1, 066, 240	52, 360	88, 080	20, 274	64, 978	660, 000 23, 086	812, 07 10, 67
16, 731, 400	15, 850, 800	48, 812, 908	46, 580, 646	40, 448, 814	38, 159, 016	40, 648, 672	85, 389, 6
1, 110, 000	1, 760, 000	2, 420, 000	8, 830, 000	8, 740, 000	8, 740, 000	8, 960, 000	8, 650, 6
		8, 807, 428	9, 805, 976	10, 200, 204	9, 810, 598	9, 629, 242	7, 135, 7
77, 880, 000	72, 820, 000	120, 840, 000	185, 680, 000	201, 740, 000		165, 220, 000	197, 849, 11
<b>8</b> , 760, 400	8, 522, 400	7, 065, 982	10, 299, 926	11, 422, 096	7, 497, 000	7, 750, 946	6, 809, 4
01, 800, 000	213, 400, 000	485, 160, 000	554, 620, 000	637, 560, 600	960, 960, 000	1,154,340,000	972, 988, 44
1 <b>2,</b> 185, <b>6</b> 00 56, 524, 000	13, 851, 600 61, 820, 600	19, 304, 656 116, 820, 000	<b>26, 398, 722 121, 660, 0</b> 00	29, 108, 354 130, 020, 000	40, 282, 928 166, 760, 000	<b>33</b> , 095, 328 <b>250</b> , 800, 000	29, 601, 7; 188, 179, 9
4, 829, 020	5, 090, 820	7, 021, 238	7, 905, 646	8, 249, 794	9, 390, 766	10, 762, 836	7, 751, 9
18, 640, 000	7, 700, 000	2, 860, 000	9, 240, 000	11, 660, 000		14, 960, 000	16, 100, 40
2, 601, 840	1, 937, 820	891, 548	1, 622, 208	1, 808, 824	1, 416, 858	2, 136, 764	2, 218, 3
46, 860, 000	49, 500, 000	81, 460, 600	26, 662, 000	29, 700, 000		26, 180, 600	22, 259, 9
		11, 935, 082	11, 504, 920	11, 828, 124	10.899,924	<b>9. 864. 348</b>	6, 486, 7
11, 220, 000	9, 240, 000	11,000,000	10, 626, 000	11, 000, 000		11, 440, 000	12, 253, 0
7, 211, 400	5, 807, 200	7, 770, 224	7, 844, 562	8, 098, 426		7, 646, 940	8, 624, 6
19, 957, 422	416, 906, 980	40, 722, 088 812, 068, 194	44, 526, 468 829, 288, 601	87, 263, 802 847, 601, 400	42, 874, 748 856, 837, 598	44, 054, 276 847, 405, 870	
•	1	.1	·I I		_!	. I	. 1

#### HOLLAND.

## Value of imports (including bullion and specie) from

Countries.	1878.	1874.	1875.	1876.	1877.
Russia	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	10, 854, 000	15, 678, 000	14, 874, 000	17, 286, 000	22, 743, 150
	1, 608, 000	1, 608, 000	1, 608, 000	1, 608, 000	2, 791, 584
Sweden	1, 206, 000	1, 206, 000	1, 206, 000	1, <b>6</b> 08, 000	1, 850, 406
	168, 438	255, 672	287, 430	<b>4</b> 02, 000	190, 548
Germany	55, 476, 000	58, 299, 000	64, 722, 000	64, 820, 000	77, 988, 000
	99, 294, 000	91, 656, 000	97, 284, 000	90, 450, 000	82, 719, 540
Belgium	36, 582, 000	84, 974, 000	42, 210, 000	41, 004, 000	42, 857, 622
	4, 824, 000	4, 824, 000	6, 834, 000	6, 834, 000	6, 443, 256
Portugal	402, 000	1, 206, 000	804, 000	804, 000	603, 804
	1, 206, 000	804, 000	804, 000	804, 000	947, 514
AustriaBritish India	130, 248	24, 522	56, 280	91, 254	63, 114
	8, 844, 000	7, <b>638</b> , 000	10, 050, 000	10, 050, 000	5, 929, 098
United States	12, 060, 000	12, 060, 000	8, 442, 000	12, 060, 000	15, 718, 778
	82, 964, 000	80, <b>954</b> , 000	30, 954, 000	29, 846, 000	29, 815, 938
ChinaPeru and Bolivia	106, 580	804, 000	200, 598	218, 286	84, 974
	<b>2</b> , 010, 000	2, 412, 000	2, 412, 000	2, 412, 000	2, 541, 444
All other	7, 462, 552	5, 564, 082	6, 224, 872	7, 505, 742	8, 651, 698
TOTAL IMPORTS	274, 197, 768	269, 958, 276	288, 973, 180	<b>286, 803, 282</b>	301, 885, 468

## Value of domestic produce\* (including bullion

Countries.	1873.	1874.	1875.	1876.	1877.
Ruseia Norway	Dollars. 1, 206, 000 804, 000	Dollars. 3, 216, 000 804, 000	Dollars. 8, 442, 000 1, 206, 000	Dollars. 6, 030, 000 1, 206, 000	Dollars. 3, 025, 452 1, 688, 150
Sweden	804, 000	1, 206, 000	804, 000	1, 206, 000	1, 857, 352
Denmark	804, 000	804, 000	1, 206, 000	804, 000	943, 494
Germany	95, 676, 000	98, 264, 000	95, 676, 000	92, 058, 000	91, 869, 058
United Kingdom	46, 230, 000	47, 084, 000	50, 250, 000	49, 848, 000	52, 867, 824
Belgium	27, 552, 000	30, 954, 000	32, 160, 000	84, 170, 000	36, 297, 884
France	2, 814, 000	2, 412, 000	2, 814, 000	2, 814, 600	2, 819, 628
PortugalItaly	<b>363</b> , 006	402, 000	402, 000	402, 000	320, 894
	<b>3, 618</b> , 000	4, 020, 000	2, 010, 000	8, 009, 774	8, 158, 916
AustriaUnited States	73, 164 1, <b>6</b> 08, 000	71, 556 <b>2, 010, 000</b>	1, 608, 000	4, 442 1, 947, 690	10, 050 1, 598, 352
Dutch India	18, 490, 000 80, 954	14, 874, 000	16, 482, 000	17, 031, 936	19, 183, 440
Argentine Republic	1, <b>60</b> 8, 000	804, 000	402, 000	224, 718	229, 140
	<b>5, 602, 54</b> 8	2, 130, 090	8, 204, 262	8, 548, 208	<b>2, 348, 94</b> 0
TOTAL EXPORTS	206, 888, 672	204, 805, 646	216, 666, 842	214, 299, 768	217, 657, 574

<sup>\*</sup> Dutch colonial produce is included

HOLLAND.

principal countries. (Entered for consumption.)

1878.	1879.	1880.	1881.	1882.	1883.	1894.	1885.
Dollars. 25, 296, 202 1, 994, 322	<b>Dollars. 83</b> , 326, 202 <b>2</b> , 201, 852	Dollars. 18, 336, 024 1, 815, 432	Dollars. 18, 747, 270 1, 911, 912	Dollars. 30, 749, 784 1, 637, 748	<b>Dollars</b> . 36, 100, 002 1, 784, 478	Dollars. 87, 652, 124 1, 839, 552	Dollars. 80, 874, 806 1, 728, 766
1, 722, 972	1, 744, 680	1, 276, 752	1, 730, 600	1, 840, 758	2, 895, 518	2, 305, 068	1, 967, 888
183, 866	196, 176	184, 116	283, 410	166, 830	237, 984	243, 612	209, 040
81, 709, 766	88, 761, 000	98, 892, 000	116, 057, 400	125, 464, 200	129, 828, 400	121, 859, 780	120, 358, <b>222</b>
87, 049, 482	88, 843, 206	85, 342, 590	98, 218, 650	110, <b>9</b> 78, 130	108, 837, 404	127, 527, 264	108, 1 <b>56, 492</b>
46, 838, 628	44, 906, 514	42, 039, 454	44, 656, 974	49, 719, 762	56, 846, 418	58, 823, 052	64, 967, 170
6, 862, 856	4, 299, 890	6, 072, 210	8, 081, 808	7, 894, 476	6, 348, 884	6, 533, 706	7, 587, 750
391, 950	473, 556	518, 178	338, 082	367, 634	524, 610	495, 264	518, 962
1, 167, 006	925, 002	945, 102	804, 804	916, 560	1, 867, 202	1, 345, 896	1, 930, 806
28, 140	822, 492	324, 012	51, 054	16, 848	11, 256	154, 770	287, 028
<b>Q. 243, 58</b> 8	12, 015, 378	9, <b>924, 9</b> 78	13, 807, 494	8, 691, 240	13, 163, 892	11, 146, 254	14, 980, 168
20, 901, 990	21, 820, 158	32, 687, 022	24, 422, 706	17, 199, 168	24, 505, 920	26, 409, 792	22, 354, 818
27, <b>699</b> , 408	22, 509, 588	22, 567, 878	21, 814, 844	21, 347, 406	32, 377, 482	80, 836, 206	39, 368, 262
14, 472	14, 472	4, 422	1, 206	402	1, 206	1, 480, 164	2, 596, 066
4, 102, 008	3, 109, 168	1, 565, 790	2, 784, 806	4, 955, 052	8, <b>633</b> , 678	4, 081, 506	
10, 882, 492	15, 129, 572	15, 473, 088	16, 544, 720	16, 881, 418	18, 635, 514	21, 911, 882	20, 668, 272
325, 529, 148	341, 158, 506	337, 569, 048	869, 707, 742	398, 827, 416	431, 094, 348	453, 645, 842	

and specie) exported to principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollare.	Dollare.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
3, <b>954, 474</b>	3, 039, 924	3, 702, 420	2, 934, 198	8, 749, 454	2, 148, 288	1, 768, 800	1, 921, 5 <b>69</b>
1, 200, 620	859, 074	1, 188, 714	1, 587, 498	1, 251, 024	892, 188	1, 199, 166	1, <b>259, 064</b>
1, <b>04</b> 1, 582	1, 041, 180	2, 493, 432	1, 244, <b>99</b> 4	1, 263, 486	1, 594, 734	1, 156, 554	1, <b>984, 524</b>
1, <b>805, 294</b>	785, 910	1, 369, 212	2, 224, 266	1, 739, 032	1, 851, 210	2, 532, 298	3, 138, 012
97, 865, 292	108, 156, 492	108, 759, 492	121, 690, 224	138, 512, 316	133, 140, 792	162, 943, 866	156, 829, 446
52, 679, 688	51, 878, 502	58, 938, 024	64, 243, 620	62, 581, 566	53, 155, 254	74, 975, 512	92, 168, 648
36, 372, 558	<b>37, 889, 304</b>	40, 478, 586	<b>43, 97</b> 8, <b>3</b> 98	47, 216, 910	46, 045, 482	52, 171, 258	51, 387, <b>66</b> 0
2, <b>89</b> 1, 184	<b>4, 148, 238</b>	4, 218, 990	<b>3, 955, 275</b>	2, 989, 674	1, 819, 452	1, 998, 342	3, 608, <b>352</b>
491, 244	802, 794	1, 059, 270	351, 750	264, 516	278, 980	1, 087, 812	643, 602
2, 747, 670	1, 652, 250	4, 857, 984	4, 461, 396	5, 667, 396	4, 782, 746	8, 230, 070	5, 859, 652
4, 422 1, <b>390</b> , <b>92</b> 0	1, <b>6</b> 07 <b>8, 665, 24</b> 0	4, 824 6, 305, 370	6, 576, 720	15, 404, 288	10, 050 7, 711, 164	261, 800 <b>9</b> , 018, 870	587, 886 10, 612, 896
21, 189, 822 14, 472	16, 676, 970 100, 902	18, 830, 484 11, 658	16, 920, 984	15, 861, 714	14, 597, 474 402	17, 422, 680	18, 18 <b>9, 294</b> 4, 422
106, 530	56, <del>682</del>	60, 702	425, 316	298, 686	77, 586	205, 020	804
3, 431, 020	3, 071, 250	2, 875, 514	<b>6, 90</b> 0, 131	5, 817, 342	7, 076, <b>666</b>	8, 183, 814	10, 051, 298
226, 686, 192	233, 827, 320	253, 154, 676	277, 584, 770	302, 620, 374	275, 132, 418	338, 174, 862	858, 196, 472

under the head of "domestic produce."

<sup>73—</sup>No. 85——4

#### **HOLLAND**—Continued.

## Quantities and value of imports entered

Articles.	1878.	1874.	1875.	1876.	1877.
A shoe	19, 450	19, 825	23, 432	21, 739	23, 005
dollars	1, 847, 994	1, 946, 484	2, 226, 678	2, 065, 878	2, 186, 076
	2, 325, 000	2, 036, 000	2, 352, 000	2, 629, 000	2, 668, 000
dollars	8, 369, 640	7, 539, 814	8, 596, 770	9, 607, 800	9, 748, 902
	230, 762, 400	184, 707, 600	242, 081, 400	186, 018, 800	243, 383, 800
Conces { dollars	18, 553, 506	14, 850, 282	19, 463, 232	14, 953, 596	19, 568, 154
Copper { tons } dollars	6, 807	7, 084	7, 648	6, 096	6, 724
	<b>2, 487, 576</b>	2, 588, 478	2, 427, 678	2, 225, 874	2, 450, 426
Cotton	102, 990, 800	99, 182, 600	97, 420, 400	108, 917, 600	86, 545, 800
	11, 941, 410	10, 874, 100	10, 680, 738	11, 941, 410	9, 488, 808
Cotton manufacturesdollars Cotton yarndollars	3, 488, 154	4, 810, 832	4, 845, 306	4, 532, 550	4, 237, 080
	11, 071, 482	11, 496, 396	10, 711, 290	11, 315, 094	8, 778, 474
Drugs, Peruvian bark dollars d	12, 620, 790	13, 960, 656	13, 148, 214	11, 108, 642	8, 095, 074
	1, 888, 508	1, 739, 856	1, 524, 384	1, 523, 178	2, 555, 916
	5, 118, 668	8, 938, 394	4, 550, 238	5, 615, 940	4, 079, 898
	41, 100, 400	34, 993, 200	29, 871, 600	19, 958, 400	53, 789, 400
Flour and meal	2, 289, 390	1, 918, 746	1, 637, 748	1, 094, 244	2, 945, 8 <b>56</b>
Grain: (bushels	4, 670, 800	5, 483, 016	4, 904, 064	5, 959, 800	9, 070, 548
W Rest dollars	6, 432, 804	7, 765, 836	6, 945, 756	8, 442, 402	12, 849, 930
	8, 422, 928	3, 888, 222	8, 538, 986	4, 512, 420	4, 222, 944
Barley dollars	2, 586, 066	2, 935, 002	2, 673, 300	3, 400, 802	3, 191, 076
Rys { bushels dollars	5, 108, 400	7, 186, 654	6, 862, 284	7, 411, 638	11, 439, 978
	4, 823, 196	6, 788 574	6, 481, 044	6, 960, 278	10, 802, 142
Guano { tons } dollars	22, 492	23, 989	18, <b>9</b> 30	24, 289	30, 855
	1, 314, 942	1, 398, 558	1, 106, 706	1, 420, 266	1, 804, 176
Water of all courts \$ pounds	4, 105, 000	8, 548, 600		2, 718, 600	8, 236, 200
Hidea rawdollars	5, 252, 582	4, 537, 778	3, 912, 264	4, 750, 838	4, 140, 600
	5, 416, 548	5, 137, 560	5, 562, 072	4, 671, 642	4, 317, 8e2
Indigo { pounds { doilars	4, 140, 400	3, 218, 600	2, 948, 000	3, 335, 200	3, 062, 400
	4, 540, 188	3, 529, 560	3, 231, 276	3, 776, 388	3, 356, 298
Iron: Pigdollars Bars, hoops, and platesdollars Wares, including nails,	14, 741, 742	8, 564, 614 11, 842, 518	9, 806, 790 13, 036, 458	10, 017, 438 9, 334, 842	10, 018, 644 10, 722, 144
wire, &cdollare	8, 048, 366 34, 062, 600	2, 408, 784 35, 967, 800	3, 933, 168 30, 530, 400	2, 917, 314 87, 358, 200	5, 281, 476
Oil, palm	8, 112, 284	3, 285, 948	2, 780, 232	3, 412, 960	36, 366, 600 3, 322, 530
Petroleum	60, 838, 800	62, 849, 600	73, 385, 400	75, 411, 200	89, 735, 800
	2, 779, 026	2, 871, 084	8, 372, 378	3, 426, 648	4, 099, 194
Rice tons dollars	83, 704	81, 639	92, 736	84, 739	64, 639
	9, 196, 654	8, 950, 530	10, 189, 092	9, 290, 622	7, 119, 822
Saltpeter, unrefined { tons } dollars	•	18, 497	21, 702	19, 791	12, 463
Seeds of all sortsdollars	1, 369, 006	2, 022, 462	<b>2,</b> 379, 438	2, 169, 996	1, 366, 398
	5, 528, 706	5, 792, 016	<b>6,</b> 261, 954	5, 847, 492	6, 091, 104
Silk manufacturesdollars	806, 010	715, 962	695, 460	626, 316	548, 730
Spelter or zincdollars	1, 689, 606	1, 443, 984	1, 011, 432	1, 349, 514	2, 109, 696
Sugar new and clayed Stons	119, 545	113, 481	101, 437	100, 174	102, 801
Tollow and land pounds	15, 226, 956	14, 515, 014	12, 974, 550	12, 812, 946	13, 0x5, 502
	39, 890, 400	36, 905, 000	32, 619, 400	49, 293, 200	55, 433, 400
etailon)	3, 644, 432	3, 371, 976	2, 980, 428	4, 533, 606	5, 064, 798
	4, 072, 200	4, 356, 000	4, 31 <b>6</b> , 400	4, 327, 400	4, 701, 400
10a { dollars	1, 860, 858	1, 990, 302	1, 971, 408	1, 977, 036	2, 147, 484
Timberdollars	4, 434, 462	5, 021, 784	5, 665, 386	8, 200, 800	9, 159, 570
	23, 568, 600	16, 673, 800	18, 202, 200	16, 847, 600	18, 119, 200
Tib, unwrought { dollars	4, 308, 636	3, 053, 1194	2,412,401	8, 076, 506	3, 310, 872
Tobacco, leaf { pounds dollars	29, 438, 200	28, 292, 000	27, 055, 600	33, 248, 600	29, 343, <b>600</b>
	2, 689, 380	2, 584, 860	2, 471, 496	3, 037, 914	2, 679, 732
Wine { gallons dollars	2, 804, 850	2, 365, 812	8, 251, 725	8, 635, 625	8, 337, 425
	1, 773, 222	1, 602, 774	1, 992, 410	2, 066, 280	2, 044, 170
Wooldollars	4, 478, 682	3, 862, 416	4, 318, 284	4, 192, 860	8, 861, 926
Woolen manufactures dollars Woolen yarn dollars	4, 676, 466	4, 700, 988	4, 684, 506	4, 552, 650	4, 617, 872
	6, 071, 406	7, 009, 270	5, 826, 186	5, 824, 980	5, 033, 442
All other articlesdollars	55, 998, 806	56, 983, 762	66, 864, 660	69, 456, 856	78, 201, 864
TOTAL IMPORTSdollars	266, 735, 844	261, 867, 222	276, 958, 704	279, 788, 784	295, 870, 794

HOLLAND—Continued.

for consumption. (Merchandise only.)

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
23, 274	21, 795	23, 998	22, 484	22, 759	26, 903	31, 445	45, 694
2, 211, 402	2, 071, 104	2, 280, 144	2, 186, 630	2, 162, 358	2, 568, 878	2, 988, 066	8, 279, 516
2, 845, 000	3, 038, 000	3, 389, 000	3, 420, 000	3, 487, 000	8, 775, 000	8, 744, 000	4, 850, 000
10, 894, 112	11, 102, 436	12, 384, 012	12, 497, 376	12, 635, 262	18, 796, 238	13, 682, 472	14, 072, 010
205, 623, 000	211, 057, 000	212, 482, 600	207, 006, 800	211, 862, 000	283, 687, 800	229, 891, 800	225, 988, 245
16, 532, 250	16, 968, 822	17, 083, 794	16, 643, 202	16, 993, 544	22, 808, 274	18, 442, 956	18, 128, 190
6, 296	6, 425	5, 613	5, 950	5, 058	5, 798	6, 476	8, 942
2, 301, 048	2, 348, 082	2, 051, 406	2, 174, 418	1, 848, 396	2, 119, 942	2, 366, 574	8, 262, 230
95, 218, 200	92, 393, 400	101, 967, 800	86, 765, 800	90, 283, 600	102, 685, 000	94, 963, 000	87, 873, 365
10, 439, 538	10, 129, 596	11, 179, 218	9, 512, 526	9, 898, 446	11, 258, 010	10, 411, 898	9, 492, 024
4, 399, 488	8, 949, 248	4, 137, 384	4, 010, 754	8, 918, 294	8, 616, 794	8, 969, 348	3, 352, 680
9, 978, 546	10, 339, 842	8, 839, 578	9, 258, 236	9, 623, 478	12, 594, 660	12, 705, 612	12, 652, 372
13, 193, 288	8, 244, 618	11, 895, 984	20, 216, 580	26, 429, 088	16, 547, 928	37, 570, 920	40, 852, 760
8, 025, 050	3, 498, 606	8, 352, 278	8, 402, 990	4, 257, 100	4, 908, 018	4, 272, 054	8, 206, 853
4, 467, 426	5, 336, 384	4, 791, 086	5, 872, 730	5, 297, 556	7, 197, 810	4, 731, 540	4, 302, 204
77, 681, 400	115, 892, 200	96, 474, 400	66, 968, 000	69, 478, 200	126, 319, 600	122, 443, 200	116, 232, 165
4, 255, 572	6, 325, 470	5, 288, 310	4, 780, 644	8, 808, 548	6, 924, 852	6, 712, 194	6, 857, 228
11, 258, 808	13, 619, 562	16, 192, 410	14, 715, 030	16, 522, 836	20, 530, 092	21, 154, 452	22, 818, 296
15, 942, 916	19, 295, 982	22, 884, 654	20, 843, 700	23, 404, 440	29, 082, 288	30, 367, 884	27, 502, 074
5, 724, 480	5, 304, 384	4, 712, 700	5, 043, 126	5, 514, 234	5, 837, 766	6, 188, 594	6, 611, 322
4, 825, 520	4, 005, 930	8, 557, 298	4, 809, 754	4, 166, 780	4, 409, 538	4, 636, 668	4, 973, 142
18, 602, 534	15, 597, 948	9, 859, 724	7, 892, 478	11, 045, 496	13, 945, 932	12, 498, 552	13, 716, 054
12, 845, 910	14, 728, 878	8, 837, 568	7, 451, 874	10, 431, 498	18, 169, 922	11, 797, 092	12, 952, 038
48, 485	25, 727	23, 454	18, 368	25, 115	10, 818	17, 980	21, 014
2, 542, 650	1, 504, 284	1, 400, 568	1, 074, 144	1, 468, 506	603, 402	1, 051, 230	1, 226, 100
2, 948, 000	2, 908, 400	2, 978, 800	2, 558, 600	2, 873, 200	2, 767, 600	1, 628, 000	2, 265, 935
8, 771, 564	8, 719, 706	3, 810, 156	8, 272, 280	8, 673, 878	8, 540, 012	2, 083, 266	2, 890, 782
4, 910, 058	4, 784, 202	4, 165, 524	4, 713, 450	8, 937, 992	4, 874, 250	5, 274, 240	5, 180, 324
2, 367, 200	2, 415, 600	2, 068, 009	2, 609, 200	2, 847, 400	2, 980, 400	8, 667, 400	8, 988, 845
2, 598, 302	2, 648, 778	2, 267, 682	2, 860, 632	2, 574, 006	8, 212, 882	4, 021, 206	4, 508, 832
10, <b>622</b> , 046	8, 943, 696	7, 884, 828	10, 278, 336	13, 216, 152	11, 592, 876	8, 704, 506	7, 899, 564
<b>9, 049, 824</b>	13, 050, 126	19, 267, 458	23, 385, 291	25, 023, 696	20, 985, 758	18, 859, 428	15, 877, 304
7, 928, 646	7, 907, 840	9, 857, 844	14, 844, 252	18, 128, 994	13, 197, 258	13, 122, 084	12, 857, 970
31, 534, 800	40, 169, 800	40, 946, 400	40, 990, 400	35, 413, 400	31, 869, 200	29, 053, 200	80, 183, 530
2, 881, 184	3, 670, 260	3, 741, 012	3, 745, 032	3, 235, 296	2, 911, 686	2, 654, 406	2, 746, 866
78, 491, 200	97, 528, 200	108, 484, 200	119, 572, 200	131, 582, 000	149, 188, 000	164, 524, 800	170, 287, 740
4, 270, 848	4, 455, 366	4, 965, 856	5, 462, 376	6, 011, 106	6, 813, 096	7, 516, 998	7, 761, 414
90, 673	64, 874	87, 415	125, 881	75, 439	104, 742	131, 685	121, 208
9, 941, 058	11, 986, 586	9, 463, 080	13, 801, 062	8, 270, 748	11, 482, 826	14, 984, 550	18, 257, 960
18, 341	21, 568	19, 846	25, 740	36, 641	33, 558	37, 716	26, 148
2, 010, 804	2, 364, 564	2, 176, 626	2, 822, 040	8, 989, 046	8, 679, 104	4, 184, 972	2, 860, 230
7, 241, 226	6, 829, 176	6, 378, 082	6, 131, 706	7, 002, 438	8, 007, 840	8, 625, 312	9, 738, 852
549, 936	451, 044	426, 522	356, 574	358, 182	335, 268	240, 798	185, 322
2, 253, 210	2, 394, 714	2, 498, 058	4, 060, 020	8, 574, 504	8, 437, 502	3, 870, 868	3, 880, 908
105, 026	114, 356	104, 507	108, 600	104, 963	127, 516	135, 945	122, 372
13, 437, 654	14, 637, 172	13, 367, 304	13, 890, 708	13, 425, 594	16, 810, 346	17, 888, 570	15, 616, 896
50, 050, 000	82, 420, 000	119, 761, 400	110, 129, 800	94, 936, 600	126, 997, 200	123, 622, 400	122, 829, 525
5, 896, 445	7, 530, 264	10, 941, 636	10, 062, 060	8, 673, 582	11, 602, 926	11, 294, 592	11, 196, 504
4, 224, 000	4, 295, 800	4, 540, 800	4, 798, 200	4, 808, 600	6, 122, 600	8, 894, 000	4, 780, 440
1, 938, 444	1, 964, 172	2, 123, 918	2, 191, 704	2, 223, 864	2, 797, 518	1, 778, 850	2, 178, 840
8, 648, 000	8, 487, 426	8, 453, 406	9, 421, 272	9, 320, 772	10, 565, 364	10, 647, 774	8, 999, 172
17, 450, 400	26, 232, 800	14, 214, 200	18, 378, 800	15, 606, 900	20, 600, 800	20, 416, 000	20, 413, 890
8, 188, 664	4, 793, 448	2, 507, 322	3, 858, 308	2, 851, 788	3, 764, 328	8, 780, 560	3, 721, 716
32, 095, 800	30, 742, 800	31, 141, 000	29, 321, 600	29, 649, 400	34, 661, 000	46, 580, 600	29, 260, 850
2, 932, 188	2, 772, 579	2, 844, 954	2, 678, 928	2, 709, 078	3, 166, 554	4, 255, 572	2, 668, 878
3, 435, 337	8, 375, 262	8, 850, 550	3, 217, 975	3, 518, 812	8, 179, 137	2, 544, 481	2, 714, 149
2, 104, 470	2, 074, 320	2, 052, 612	1, 971, 006	2, 155, 524	1, 947, 690	1, 851, 710	1, 764, 780
3, 262, 632	8, 566, 544	3, 509, 460	4, 442, 100	5, 896, 046	6, 086, 814	8, 665, 110	7, 674, 582
4, 863, 710	4, 034, 874	4, 134, 168	4, 025, 628		8, 674, 290	8, 146, 484	2, 816, 838
5, 592, 624	6, 250, 698	4, 345, 620	4, 824, 000		4, 785, 006	5, 151, 228	5, 118, 666
82, 801, 049	80, 349, 029	81, 474, 620	86, 670, 928		114, 445, 704	120, 111, 654	116, 449, 376
819, 890, 696	828, 782, 284	832, 840, 322	866, 062, 406	898, 752, 166	406, 714, 656	447, 280, 476	481, 003, 496

#### MOLLAND-Continued.

#### Quantities and pains of

Articles.	1873.	1874.	1575.	1876.	1977.
Animals (horses excepted) { number	484, 345 6, 998, 418	<b>30</b>		584, 242 7, 165, 248	588, 295 6, 070, 200
Bran dollars	\$1, 297, 200 1, 601, 616	1 10	1 0	45, 941, 400 2, 578, 202	34, 177, 000 1, 874, 723
Butter pounds dollars	87, 891, 400 8, 489, 660	4 60	1 0	50, 421, 800 7, 871, 07%	50, 844, <b>300</b> 7, 432, <b>678</b>
Candles dollars	8, 608, 252	46	į . •	8, 638, 502	4, 511, 244
Chaesa	54, 696, 600 3, 496, 204	1 10	1	50, 146, 800 4, 192, 056	67, 368, 400 4, 308, 636
Coffee { pounds } dollars	151, 366, <b>6</b> 00 12, 160, 746	182, 411, 400 10, 645, 764	11, 956, 688	13, 087, 914	168, 009, 690 13, 508, 664
Copper, raw	12, 416, 800 2, 268, 868	13, 538, 800 2, 473, 908	12, 509, 200	11, 587, 400 2, 117, 334	11, 154, 666 2, 041, 758
Cotton	91, 575, 000 18, 039, 950	86, 510, 000 9, 464, 788	85, 875, 400 9, 880, 168	87, 377, 400 9, 579, 660	75, 193, 600 8, 240, 898
Cotton manufactures dellara Cotton yam	4, 607, 674 7, 918, 116	6, 882, 842 6, 560, 500	6, 905, 154 5, 638, 854	6, 569, 662 5, 607, 960	6, 068, 994 5, 119, 872
Peruvian bark	11,418 894	1, 698, 743 12, 416, 172	1, 606, 006 11, 708, 250	00 40	943, 890
All otherdollars	1, 879, 350	2, 758, 700	2, 822, 844	84	2, 131, 062
Dyea dollars pounds dollars dollars.	2, 943, 043 44, 458, 200	3, 390, 046 48, 006, 200	6, 042, 000 46, 290, 800	2 00	4, 207, 784
Grain	5, 758, 424 8, 927, 942	6, 472, 200 3, 778, 172	6, 536, 520 4, 809, 528	1 00	5, 409, 714 B, 056, 668
Guanodollars	596, 970	578, 076	752, 946	84	767, 518
Hair { pounds dollars	2, 477, 200 3, 167, 700	2, 508, 600 8, 202, 382	2, 127, 400 2, 726, 334	3,714,800 2,472,074	8, 220, 800 4, 118, 490
Hidesdollars	3, 468, 954 10, 679	4, 152, 258 9, 013	4, 054, 552 12, 172	3, 898, 596 15, 704	8, 416, 598 9, 670
Horses { number { dollars	802, 974	696, 214	947, 112	1, 0°2, 968	709, 128
Indigo	2, 459, 800 2, 914, 912	8,740,000 4,000,104	2, <b>201, 400</b> 2, <b>621, 040</b>	3, 161, 600 4, 444, 386	8, 696, 200 2, 846, 974
Pig dollara do	8, 105, 928 3, 679, 104	7, 774, 494 5, 818, 960	9, 211, 830 8, 980, 832	9, 260, 070 4, 414, 764	8, 499, 438 8, 390, 946
Wire, nails, &cdollare Madder dollare	2, \$10, 294 1, 847, 190	2, 452, 200 2, 728, 384	2,426,478 2,498,430	2, 526, 972 1, 324, 992	4, 140, 600 1, 016, 808
Oil:	31, 820, 000	36, 96R, 60D	48, 412, 600	· · ·	47, 876, 400
dollars	1, 842, 866	2, 195, 333	2, 578, 026	2, 591, 694	2, 845, 850 8, 817, 000
Finds { dollare	20, 641, 400 972, 488	8, 384, <b>60</b> 0 766, 212	7, 627, 400 609, 078	588, 680 588, 680	348, 936
Rice	45, 830, 400 2, 512, 096	50, 850, 800 2, 787, 468	53, 176, 200 2, 914, 902	55, 098, 000 3, 568, 554	53, 204, 200 2, 919, 726
Saltpeter	29, 186, 400 1, 649, 004	31, 448, 000 1, 723, 776	39, 041, 200	30, 082, 900 1, 648, 004	28, 630, 8#0 1, 480, 566
Silk, rawdojlare	288, 254	717, 168			43, 818
Speiter er sinedollars Spirits	1, 554, 95 <b>6</b> 0, 112, 718	1, 151, 790 6, 452, 894	780, 484 6, 411, 870	979, 026 7, 181, 596	1, 355, 946 6, 024, 691
dollara	1, 861, 260 188, 008, 600	1, 964, 574 179, 847, 800	1, 952, 112	1, 831, 110 162, 949, 600	1, 834, 728 138, 674, 600
Bugar, refined	13, 795, 988 16, 815, 200	18, 144, 988 14, 042, 600	12, 392, 856 16, 378, 600	11,770,168 12,188,000	10, 019, 046
Tallow pounds dollars .	1, 490, 616	1, 268, 164	857, 064	1, 115, 148	1, 263, 684
Tin, unwrought	16, 824, 800 2, 738, 424	16, 385, 200 2, 727, 168	17, 210, 800 2, 986, 252	15, \$14, 800 3, 146, 454	15. 615, 600 2, 908, 008
l'obacco, leaf	7, 900, 200 721, 590	7, 761, 600 709, 128	650, 034	7, 845, 200 717, 164	6, 669, 000 005, 814
Vegetables	85, 850, 400 2, 609, 868	82, 526, 400 4, 582, 108	100, 896, 000 5, 502, 978	96, 564, 600 5, 298, 586	100, 434, 400 5, 696, 840
Wool pounds dollars	14, 148, 200 8, 102, 636	15, 087, 000 3, 296, 802	16, 544, 000 3, 827, 648	21, 711, 800 4, 183, 219	17, 052, 909 8, 092, 295
Woolen manufacturesdollars Woolen yarndollars	1, <b>623</b> , 276 2, 734, 404	1, 8t0, 906 4, 806, 272	1, 917, 040 3, 609, 754	1, 715, 738 4, 249, 344	1, 726, 902 2, 287, 762
Yeast.   pounds   dollars	18,040,600	15, 880, 400 1, 403, 382	16, 585, 800	16, 123, 800	15, 952, 200 1, 457, 250
All other articlesdollars	1, 619, 004 44, <b>29</b> 8, 792	40, 502, 539	44, 022, 618	1, 472, 928 49, 511, 014	52, 810, 200 52, 810, 200
			* <u>-</u> ·		

MOLEAND-Contonal

# domestic produce exported.

3870.	1070.	3680.	1881	THE.	TRIOL	1884.	TARE
688, 270	867, 006	844, 00m	467, 417	BF6, 471	649, 776	484,000	491, 311
5, 374, 388	5, 810, 493	8, 206, 306	5, 025, 402	5, 018, 450	4, 173, 888	4,300,300	4, 006, 568
18, 274, 200	88, 884, 200	31, 983, 900	30, 980, 600	86, 211, 800	30, 803, 400	46, 241, 800	40, 484, 188
1, 634, 456	3, 954, 920	1, 750, 300	2, 028, 000	2, 004, 014	1, 404, 428	2, 300, 812	8, 478, 074
57, 574, 440	80, 101, 200	TB, 814, 480	00, 473, 600	106, 350, 200	83, 010, 400	126, 330, 400	140, 036, 730
8, 417, 676	11, 792, 723	12, 004, 000	13, 234, 300	28, 546, 546	12, 134, 370	18, 466, 283	20, 463, 610
3, 500, 654	3, 990, 634	4, 991, 844	4, 804, 606	8, 191, 076	2, 563, 554	3, 930, 606	1, 974, 810
65, 243, 200	50, 040, 300	61, 7.2, 600	35, 005, 000	57, 183, 446	E. SE. DE	64, 880, 889	76, 923, 300
4, 172, 200	3, 571, 770	3, 947, 660	8, 660, 614	3, 687, 796	8, 818, 100	4, 136, 776	4, 864, 869
180, 490, 800	188, 988, 600	146, 486, 800	139, 184, 409	141, 600, 600	144, 777, 400	146, 851, 200	155,005,400
12, 600, 700 10, 680, Cob	13, 870, 802 10, 345, 400	31, 976, 662 9, 641, 866	10, 048, 274 10, 504, 400	11, 801, 676 11, 806, 200	11, 800, 710 7, 458, 600	11, 720, 846 0, 475, 000	12, 488, 788 14, 787, 860
1, 934, 978	1,002,114	1,014,000	1, 830, 404	2 112 942	1, 361, 976	1,791,014	2, 633, 160
01, 004, 000	73, 667, 406	74, 423, 800	64, 466, 000	70, 000, 000	43, 775, 600	05, 207, 499	48, 647, 660
7, 514, 204	7, 807, 740	7,018,000	7, 061, 130	7, 677, 306	4, 900, 965	7, 156, 800	L 441 AC
6, 110, 400	7, 046, 695	6, 616, 116	0.725300	6, 863, 610	8, 1024/160E	4, 600, 006	6, 300, 040
6, 234, 216	6, 31A, 334	4, 001, 740	5,000,000	6, 771, 143	7, 787, 148	7, 446, 542	6, 100, 040 6, 100, 400
1, 383, 300	1,000,000	1, 679, 860	3, 974, 999	8, 186, 600	1,001,000	4 20	8, 273, 178
8, 054, 000	7, 746, 138	13, 486, 100	18, 819, 000	30, 881, 550	11,705,486		36, 430, 905
2, 274, 816	3, 297, 492	1, 880, 862	1,791,002	9, 476, 820	1, 787, 544	1 49	1,400,000
4, 404, 200	4, 184, 486	4, 234, 616	4, 897, 478	7,000,700	8, 276, 200		4, 075, 074
4,343,304	85, 765, 600	13, 002, 000	36, 823, 840	35, 015, 200 4, 615, 784	31, 696, 000	29 00	4,755,314
16, 103, 002	34, 100, 200	4, 407, 528 21, 357, 700	4, 865, 108 St, 610, 814	38, PBK, 486	4, 645, 735 M, 546, 203	Si 04	37, 041, 118
872, 344	1,004,346	1,791,676	1, 344, 196	1, 545, 600	851, 094	" #	626, 130
2, 184, 600	2, 170, 000	1, (0.1, 400	8, 437, 460	3, 400, 200	1, 636, 000	1,100,000	2, 123, 413
2, 194, 176	2, 783, 480	8, 84L 403	8, 143, 434	3, 197, 600	2, 118, 344	1, 401, 420	2,711,006
3, 574, Bot	4, 941, 804	4, 054, 543	3, 900, 004	4, 030, 246	4, 306, 886	4, 490, 300	4, 480, 701
6, 319	B, and	2.444	11, 479	11,000	10, 570	11,443	0, 519
735, 610	771, 490	795, 858	896, 470	801, 204	816, 764	855, 456	780, 860
2,091,400	1, 800, 000	1, 583, 400	3, 573, 800	3, 256, 000	3, 344, 200	2,704,500	3, 310, 544
2, 230, 642	2, 154, 800	1, 001, 005	2, 000, 734	2, 414, 420	1, 801, 900	2, 856, 210	8, 743, 938
8, 078, 181	6, 003, 800	7, 902, 230	0, 500, 868	13, 503, 004	9, 907, 600	8, 000, 634	0,727,470
9, 666, 879	0, 421, 950	10, 924, 956	19 417 413	13, 142, 184	10, 940, 469	10, 265, 024	8, 314, 960
6,796,912	0, 280, 240	0, 141, 070	10, 920, 769	12, 044, 100	8, 294, 216	9, 710, 055	10, 281, 150
725, 200	701, 882	300, 202	437, 376	418, 000	647, ES	OK 28	424, 632
26, 136, 200	41, 131, 400	68, 678, 900	47, 814, 400	40, 948, 409	50, 234, 000	87, 409, 300	46, 67E, 630
2, 007, 900	2, 454, 012	2, 400, 186	3, 694, 306	2, 414, 010	3, 884, 646	3, 433, 694	3, 917, 464
å, 804, 000	7, 4\$0, 600	4, 971, 800	18, 761, 600	10, 637, 246	8, 130, 600	4, 239, 690	4, 666, 006
\$11, 544	677, 771	636, 768	1, 287, 664	804, 120	460, 792	27.20	584, 780
70, 475, 800	05, 013, 000	76, 760, 000	78, 625, 800	P1, 227, 400	39, 663, 650	81, 87 , 800	01, 900, 306
E, 884, 624 30, 686, 400	3, 735, 850 48, 951, 840	4, 007, 184 30, 000, 000	4, 318, 344 51, 686, 600	83, 539, 380	4, 0(0, 000 ) 61, 127, 000	4, 454, 984 64, 137, 800	8, 661, 630 50, 600, 186
1, 701, 714	2, 411, 190	1, 130, 234	3, 8.43, 200		8, 845, 943		2,784,674
		1			1	1	
84, 672	30, 156	10, 276	10, 854	4,834	943 1, 200, 603	3.5	91, 686
1, 664, 700 6, 013, 384	1, 111, 830 6, 122, 721	938, 630	1, 911, 710 4, 131, 484	1, 135, 003 4, 783, 839	7, 033, 133	1, \$71, 221 1, 221, 443	2, 148, 494 6, 144, 346
1, 881, 510	1,004,074	7, 072, 211 2, 182, 710	1, 886, 668	2, 040, 798	3, 141, 003	1 196, 130	1, 870, 666
344, 183, 000	159, 675, 660	146, 800, 000	136, 019, 200		144, 677, 200	202 65., 200	178, 178, 605
10, 400, 143	11, 616, 754	10, 601, 644	8, 906, 714	9, 003, 700	11, 505, 642	14, 703, 864	THE PART AND
18, 244, 608	26, 6 2, 800	30, 823, 000	22, 881, 100	19, 888, 600	17, 472, 000	14, 600, 700	36, 874, 000
1, 007, 601	1, 372, 438	1, 901, 006	2, 000, 600	1, 817, 040	1, 614, 434	1, 504, 204	1, 547, 200
16, 867, 200	10,760,400	36, 663, 400	18, 646, 800	14, 400, 400	18,000,000	18, 070, 000	18, 89L 426
2, 861, 806	3, 195, 451	8, 673, 476	D, 1005, 004	3, 494, 000	2, 007, 004	8, 301, 436	3, 57 L, 770
8, 267, 800	T, 600, 60J	6, 104, 400	£, 200, 000	£, 971, 900	6, 290, 800	2, 9/1 000	8, 987, 698
755, 158	783, 8v0	612,960	481, 194	845, 910	963, 506	867, 4.28	618, 800
220, 200, 000	00, 003, 100	71, 717, 800	301, 418, 400	08, 110, 016	71, 156, 800	139, 140, 400	169, 007, 765
A, 718, 354	3, T14, 600	4, 100, 266	8, 867, 648	A. 916A, ORG	4, 933, 000	0, 001, 500	8, 030, 000
14, 734, 200 2, 604, 130	16, 635, 000	30, 336, 300	19, 604, 200	18, 618, 409	37, 447, 000	37, 848, 0x0	81, 306, 010
	2, 800, 800	8, 600, 256	4,000,194	E, BIRT, VOI	6, 917, 000	8, 306, 800 1, 607, 608	8, 768, 444
1, 841, 848 3, 666, 170	1, 900, 100 1, 900, 401	3, 964, 504 3, 446, 179	1, 204, 864 1, 668, 300	2, 251, 609 3, 276, 702	8, 721, 716	1, 977, 600	1, 516, 748 8, 617, 660
18, 874, 800	17, 577, 200	14,404,100	11, 021, 000	13,400,000	F, 0200, (100)	13, 608, 200 .	17, 125, 466
1, 400, 214	1, 633, 836	1, 460, 654	1, 277, 428	1, 077, 763	\$34, 100	1, 247, 408	1, 001, 770
80, Tel., 489	81, 841, 736	74, 604, 886	00, 075, 386	80, 187, 663	77, 710, 776	84, 84A, 636	114, 900, 800
22, 677, 486	202, 500, 004	353, 148, 696	276, 802, 658	300, 743, 495	374, 829, 860	334, 942, 995	207, 469, 340

ITALY.

## Value of imports from principal countries entered

Countries.	1873.	1874.	1875.	1876.	1877.
RussiaGermany	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	9, 360, 866	7, 713, 438	8, 954, 428	6, 730, 875	5, 482, 551
	4, 576, 030	5, 381, 407	7, 201, 216	7, 787, 177	4, 863, 986
HollandBelgium	8, <b>663</b> , 577	5, 023, 493	8, 816, 577	3, 589, 234	8, 307, 829
	<b>2, 790</b> , 201	2, 784, 797	2, 483, 831	1, 267, 624	2, 321, 104
United KingdomFrance and Algeria	58, 345, 058	54, 319, 850	57, 461, 811	59, 718, 253	57, 228, 553
	74, 664, 366	76, 281, 706	71, 381, 050	82, 640, 863	64, 089, 896
Spain, Portugal, and GibraltarAustria	1, 561, 177	1, <b>302</b> , 171	464, 858	1, 891, 337	1, 021, 163
	43, 496, 603	49, 125, 255	45, 285, 520	51, 197, 680	45, 841, 939
SwitzerlandGreece and Malta	7, 908, 561	8, 041, 345	6, <b>953</b> , 404	<b>6, 891, 5</b> 88	5, 405, 351
	1, 200, 846	1, 692, 996	1, 860, 678	<b>997, 0</b> 38	1, 211, 654
Turkey, Servia, and Roumania	8, 414, 239	15, 300, 461	5, 874, 148	12, 046, 288	10, 737, 941
Egypt	3, 583, 238	3, 279, 456	2, 847, 845	2, 240, 730	2, 275, 277
Tunis and Tripoli	3, 583, 238	1, 763, 950	1, 322, 822	1, 078, 659	823, 338
	9, 604, 066	9, 168, 465	8, 297, 649	9, 550, 412	7, 693, 559
Central and South AmericaAll other	9, 735, 885	9, 056, 718	8, 994, 379	8, 421, 748	9, 986, 013
	835, 885	625, 834	1, 855, 921	1, 209, 831	868, 961
TOTAL EXPORTS	248, 323, 886	251, 863, 842	234, 554, 637	256, 153, 846	223, 159, 145

## Value of domestic produce, including bullion and

, Countries.	1873.	1874.	1875.	1876.	1887.
Russia	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	3, 222, 521	3, 769, 869	4, 763, 240	6, 676, 642	3, 850, 736
	2, 666, 295	3, 583, 817	4, 551, 362	3, 975, 607	3, 206, 695
Holland	2, 909, 861	2, 252, 310	2, 237, 835	2, 457, 276	1, 811, 498
	939, 138	1, 367, 598	1, 201, 425	2, 440, 010	1, 625, 446
United KingdomFrance and Algeria		25, 48?, 948 70, 954, 520	27, 036, <b>212</b> 75, 763, 501	25, 845, 016 105, 640, 181	24, 258, 749 80, 845, 770
Spain, Portugal, and GibraltarAustria	1, 323, 401	1, 506, 751	1, 681, <b>030</b>	1, 899, 313	2, 351, 705
	42, 776, 520	40, 743, 844	<b>36</b> , 980, 730	86, 202, 940	29, 909, 408
SwitzerlandGreece and Malta	30, 817, 661	20, 826, 437	20, 996, 856	29, 234, 096	29, 234, 096
	3, 373, 833	1, 048, 376	2, 391, 270	1, 933, 088	1, 570, 634
Turkey Egypt	1, 300, 434	1, 663, 081	2, 550, 688	1, 178, 072	1, 644, 167
	3, 826, 611	2, 578, 655	2, 637, 345	1, 694, 347	1, 911, 668
Tunis and Tripoli	734, 558	546, 769	518, 784	654, 656	575, 912
	5, 647, 952	5, 399, 175	5, 613, 405	3, 966, 943	5, 245, 547
Central and South America Ali other	11, 086, 692	8, 101, 561	9, 481, 125	10, 769, 014	8, 909, <b>652</b>
	339, 680	372, 876	1, 096, 976	685, 428	(*)
TOTAL EXPORTS	218, 700, 073	190, 193, 587	199, 501, 784	<b>234</b> , 852, 629	183, 965, 284

<sup>\*</sup> The exports to the several countries for the year 1877 amount to \$12,986,394 more than the

ITALY.

for consumption, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars. 5, 872, 218 16, 693, 921	Dollars.	Dollars.	Dollars.	Dollars.
10, 325, 693	19, 734, 057	16, 860, 417		6, 088, 571	7, 003, 005	9, 800, 518	17, 661, 400
7, 619, 833	8, 804, 274	16, 952, 348		16, 311, 202	21, 798, 630	21, 870, 890	23, 241, 060
2, 426, 896	2, 208, 306	1, 759, 581	2, 178, 759	3, 399, 809	2, 005, 656	1, <b>639</b> , 585	2, 849, 889
2, 946, 724	2, 739, 635	2, 889, 147	2, 827, 643	2, 918, 160	4, 259, 124	7, 026, 744	6, 584, 967
45, 687, 405	49, 425, 370	50, 036, 794	<b>69, 777, 606</b> 70, 809, 770	57, 351, 301	57, 429, 852	57, 947, 285	60, 618, 212
52, 672, 402	58, 111, 914	59, 053, 754		81, 199, 925	70, 961, 635	56, 177, 282	72, 057, 129
840, 822	2, 028, 430	1, 124, 997	1, 485, 907	1, 821, 920	1, 725, 999	2, 443, 567	2, 744, <b>65</b> 3
87, 936, 466	87, 512, 252	35, 080, 259	42, 209, 679	86, 732, 532	<b>39</b> , 988, 828	89, 772, 861	45, 568, 651
6, 469, 167	6, 258, 990	6, <b>639</b> , 393	7, 155, 089	8, 914, 670	12, 520, 682	14, 521, 518	14, 862, 930
1, 088, 327	1, 959, 722	1, 324, 173	2, 984, 359	1, 327, 840	1, 518, 910	1, 214, 985	4, 313, 936
7, 799, 323	12, 752, 568	6, 760, 597	5, 205, 982	6, 370, 930	5, 429, 476	6, 655, 026	13, 152, 178
1, 833, <b>69</b> 3	6, 089, 343	5, 201, 243	2, 512, 860	2, 819, <b>5</b> 37	2, 511, 123	3, 346, 813	4, 089, 284
1, 368, 563	845, 726	779, 834	1, 056, 868	774, 316	2, 146, 160	1, 924, 596	2, 298, 487
10, 467, 548	13, 861, 839	14, 617, 241	12, 141, 051	13, 315, 263	11, 298, 413	11, 625, 232	13, 985, 988
5, 888, 860	5, 570, 366	8, 162, 549	7, 148, 720	7, 631, 376	5, 347, 644	4, 929, 790	4, 593, 014
11, 702, 412	15, 593, 851	10, 307, 658	7, 003, 468	13, 285, 541	20, 455, 447	18, 941, 049	15, 899, 563
206, 633, 134	243, 498, 643	236, 549, 485	257, 058, 900	259, 662, 893	266, 305, 584	259, 346, 645	804, 020, 741

### specie, exported to the principal countries.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
<b>3, 418, 223</b>	4, 767, 486	3, <b>646</b> , 785	5, 389, 139	4, 350, 220	4, 368, 183	4, 397, 812	8, 502, <b>564</b>
4, 023, 857	4, 503, 400	15, 127, 340	18, 121, 105	14, 100, 194	17, 080. 500	21, 085, 483	20, 818, 250
1,930 000	1, 087, 555	1, 842, 508	1, 400, 601	1, 489, 960	1, 386, 319	1, 604, 988	1, 386, 705
1, 255, 465	1, 161, 088	775, 860	1, 181, 739	8, 164, 647	3, 468, 982	3, 928, 322	3, 950, 131
18, 699, 384	18, 241, 009	16, 159, 504	15, 947, 783	17, 844, 201	17, 878, 887	17, 806, 810	14, 235, 487
94, 438, 356	91, 801, 931	97, 572, 887	106, 981, 637	90, 541, 318	98, 231, 596	82, 399, 034	99, 412, 870
·	0 100 440	0.010.507	0 100 000	4 070 E01	0 500 000	0 450 500	0.500.050
2, 715, 896 33, 459, 831	2, 138, 440 89, 910, 084	2, 018, 587 32, 098, 602	2, 186, 690 29, 098, 417	4, 878, 591 28, 310, 188	2, 539, 880 26, 489, 829	2, 459, 592 21, 488, 409	2, 796, 956 19, 645, 277
00, 200, 001	00, 010, 002	02, 000, 002	20, 000, 411	20, 010, 100	20, 200, 000	22, 300, 300	
19, 092, 718	29, 729, 987	19, 732, 513	23, 981, 166	25, 069, 156	24, 010, 744	24, 925, 871	24, 099, 717
2, 654, 522	<b>2, 733, 652</b>	3, 248, 576	<b>3, 183, 53</b> 5	2, 431, 028	8, 255, 717	3, 078, 786	8, 218, 082
2, 864, 699	3, 461, 841	2, 791, 745	8, 345, 076	2, 671, 506	8, 275, 017	3, 078, 736	8, 102, 861
1, 497, 680	1, 981, 045	2, 833, 756	2,771,866	3, 789, 761	4, 298, 110	2, 028, 170	2, 532, 932
578, 035	790, 132	697, 502	944, 349	1, 208, 566	1, 782, 355	1, 420, 480	2, 118, 543
7, 043, 728	11, 953, 648	10, 565, 206	11,001,000	11, 864, 482	11, 397, 036	10, 630, 247	8, 807, 169
•				}			
5, 362, 312	6, 042, 444	5, 011, 245	6, 196, 458	6, 838, 295	7, 565, 986	6, 024, 490	5, 825, 126
2, 713, 387	2, 759, 625	5, 409, 211	1, 387, 585	5, 572, 849	4, 562, 013	4, 757, 801	8, 981, 788
201, 743, 098	213, 653, 367	218, 531, 777	280, 118, 146	223, 075, 962	231, 586, 104	211, 608, 481	218, 923, 958

emount given as the sum of the total exports. The error occurs in the official returns.

ITALY-Continued.

## Quantities and value of principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Cheese	13, 222, 000	15, 386, 800	17, 212, 800	15, 631, 000	14, 757, 600
dollars	2, 307, 701 1, 057, 403	2, 686, 946 1, 134, 100	3, 004, 238 1, 188, 000	2, 742, 530 1, 550, 400	2, 589, 283 1, 452, 910
dollars	9, 250, 96 l	7, 957, 909	7,770 952	9, 000, 555	7, 627, 998
Coffee { pounds dollars	28, 512, 000 6, 253, 007	23, 529, 000 5, 367, 158	29, 876, 000 6, 552, 157	<b>6</b> , 318, 753	26, 884, 000 5, 660, 497
Cotion { pounds } dollars	52, 580, 000 10, 377, 610	67, 964, 600 11, 924, 891	40, 868, 000	44. 442, 200	53, 107, 400
Cotton yarn		23, 661, 000	6, 637, 463 26, 270, 200	6, 627, 813 29, 964, 000	7, 929, 212 28, 333, 600
( doing	8, 109, 860	7, 237, 114	7, 918, 878	8, 622, 428	8, 034, 397
Cotton tissues, unbleached { pounds dollars		6, 890, 400 2, 780, 551	8, 428, 200 8, 401, 625	8, 074, 000 3, 187, 009	6, 980, 600 2, 572, 111
Cotton tissues, bleached { pounds dollars	5, 009, 400 2, 417, 152	4, 411, 000 2, 012, 411	5, 335, 000	5, 077, 600	5, 077, 800
Cotton tissues, colored { pounds { dollars	4, 061, 200	8, 658, 600	2, 840, 818 4, 644, 200	2, 227, 320 4, 523, 200	2, 137, 861 3, 810, 400
( uunais	<b>8, 206, 8-8</b>	2, 695, 824	8, 259, 770	2, 777, 270	2, 173, 373
Cotton tissues, printed { pounds dollars	7, 125, 800 6, 252, 621	6, 360, 200 5, 309, 237	7, 783, 600 6, 272, 886	7, 350, 000 5, 810, 844	<b>6</b> , 562, 600 <b>5</b> . 181, 278
Fish { ponnds . dollars	76, 058, 400 3, 651, 174	95, 285, 800 4, 289, 824	88, 837, 600	81, 207, 000	81, 804, 800
Chaphala	9, 873, 820	13, 601, 952	4, 019, 611	3, 978, 116 12, 081, 593	5, 848, 286 7, 728, 693
Grain, wheat	19, 7, 2, 248	21, 096, 414	15, 011, 733	17, 775, 019	12, 180, 230
Hides, raw and dried pounds dollars	39, 831, 000 9, 434, 805	80, 010, 200 7, 108, 576	81, 148, 200 7, 103, 865	80, 591, 000 6, 709, 259	29, 629, 600 6, 398, 811
number	10, 537	11,0:0	14, 276	14, 738	4, 634
( donate		1, 084, 274	1, 371, 651	1, 625, 446	642, 600
Iron in bars, first fusion { tons dollars		54, 469 3, 344, 883	58, 180	52, 480	53, 940
Jimes and heren years   pounds	9, 03 1, 200	8, 401, 800	2, 983, 008 9, 907, 600	2, 851, 470 8, 034, 400	2, 839, 228 8, 855, 800
Linen and hemp yarn dollars	3, 556, 640	3, 328, 492	3, 700, 582	2, 883, 613	2, 925, 108
Machinerydollars	2, 893, 842	5, 922, 784	<b>3, 973, 87</b> 0	4, 159, 922	4, 133, 131
Oil, olive	10, <b>694</b> , 200 1, 478, 870	7, 000, 400 921, 189	17, 861, 500 2, 115, 473	4, 818, 600 478, 622	9, 847, 200 1, 209, 338
Oil mineral refined } pounds	75, 684, 400	96, 538, 200	99, 437, 800		100, 826, 200
( tone	3, 319, 793	2, 964, 287 54, 554	3, 002, 887	8, 860, 781	4, 339, 412
		3, 351, 638	56, 587 <b>2, 984, 859</b>	48, 018 1, 509, 453	61, 867 2, 153, 494
Rice	 		19, 258, 800	41, 186, 200	35, 849, 000
Silk, unbleached, raw or pounds	1, 380, 720	1, 057, 254 1, 298, 000	591, 592 1, 526, 800	1, 284, 536 8, 855, 000	1, 572, 564 1, 553, 200
twisted dollars	7, 939, 827	7, 411, 586	6, 698, 065	23, 541, 368	7, 492, 007
Silk manufactures	289, 520 <b>6, 095,</b> 712	420, 200 6, 518, 189	517, 000 7, 126, 525	473, 000 <b>8, 052, 92</b> 5	3/18, 200 <b>5, 098, 904</b>
Silk-worms' eggs, on cards { pounds	67, 212	173, 364	163, 108	105, 138	277, 143
( uomata	2, 900, 018 65, 454, 400	7, <b>6</b> 04, <b>0</b> 07 75, <b>4</b> 64, <b>4</b> 00	4, 292, 706 83, 272, 200	82, 145, P00	2, 917, 581 104, 288, 800
bugar, raw { dollars	4, 5 3, 786	3, 310, 143	3, 652, 718	5, 044, 634	6, 857, 869
Sugar, refined	112, 230, 800 <b>9, 353, 35</b> 9	99, 202, 400 7, 833, 077	105, 881, 600 8, 102, <b>60</b> 4	93, 244, 800 8, 080, 112	82, 194, 2°0 7, 210, 678
Timber dollars	5, 544, 697	5, 172, 014	4, 400, 917	<b>7, 197, 98</b> 5	8, 496, 632
Tobacco		35, 431, 000	3K, 810, 200	44, 085, 800	4", 022, 400
( umais	4, 394 610   10, 903, 200	5, 287, 235 14, 412, 200	6, 128, 528 14, 300, 000	6, 187, 936 17, 743, 000	5, 00, 1, 854 17, 622, 000
Wool	4, 224, 286	5, 255, 776	5, 394, 736	6, 693, 433	6, 647, 885
Wool manufactures, puredollars	• • • • • • • • • • • • • • • • • • • •	8, 003, 903	8, 870, 666	8, 723, 021	8, 102, 526
Wool manufactures, mixeddollars All otherdollars	00, 768, 390	91, 271, 995	(*) 84, 161, 984	(*) 81, 126, 899	(*) 75, 585, 871
TOTAL IMPORTSdollars					
TOTAL IMPUNTS	<b>520, 200,</b> 510	700, 00A, \$11	232, 935, 367	zoz, 266, 440	220, 318, 7 <b>04</b>

<sup>\* &</sup>quot;Mixed woolens" not specially designated previous to 1879, and

ITALY-Continued.

imported and entered for home consumption.

1878.	1879.	1890.	1891.	1882.	1883.	1894.	1885.
15, 587, 000	15, 786, 600	16, 478, 000	19, 793, 400	20, 057, 400	19, 745, 800	19, 186, 200	28, 284, 800
2, 7:14, 617	2, 761, 251	8, 033, 960	8, 299, 142	8, 197, 624	8, 205, 923	8, 118, 669	8, 608, 737
1, 447, 500	1, 676, 490	1, 901, 800	2, 276, 800	2, 898, 000	2, 586, 100	2, 964, 500	8, 253, 000
7, 673, 101	8, 822, 030	7, 207, 778	12, 004, 460	11, 780, 918	12, 705, 803	18, 072, 088	13, 698, 754
27, 933, 400	84, 089, 000	23, 478, 400	31, 108, 600	81, 002, 000	88, 759, 200	85, 824, 800	52, 029, 180
5, 268, 514	6, 429, 602	4, 428, 771	5, 190, 559	4, 628. 122	5, 034, 105	5, 028, 422	6, 831, 042
59, 376, 000	81, 470, 400	103, 958, 800	106, 660, 409	138, 888, 200	148, 079, 800	145, 486, 000	173, 223, 595
7, 813, 219	12, 886, 031	15, 959, 942	15, 439, 038	19, 417, 537	17, 587, 331	16, 592, 017	17, 436, 006
19,516,200	14, 899, 890	12, 702, 800	26, 230, 600	19, 958, 400	19, 780, 000	20, 57H, 000	16, 909, 810
5, 218, 918	4, 480, 109	8, 932, 954	7, 151, 036	5, 436, 810	5, 163, 171	4, 510, 989	4, 112, 444
7, 288, 600 2, 559, 873	5, 713, 400 1, 872, 800	5, 414, 200 1, 704, 383	7, <b>629</b> , 600 2, 261, 767	7, 337, 000 2, 154, 845	8, 428, 200 2, 324, 492	7, 759, 400 2, 115, <b>666</b>	8, 214, 625 2, 154, 705
6, 206, 200	5, 095, 000	4, 666, 200	7, 125, 800	6, 146, 800	7, 194, 000	6, 787, 000	6, 667, 920
2, 501, 754	2, 061, 433	1, 829, 640	2, 67+, 504	2, 248, 450	2, 432, 958	2, 250, 380	2, 105, 244
3, 181, 200	4, 162, 400	8, 69R, 200	5, 332, 800	5, 022, 600	5, 684, 800	6, 825, 000	6, 110, 025
1, 674, 661	1, 677, 770	1, 505, 780	2, 056, 029	1, 900, 278	2, 028, 219	2, 206, 376	2, 064, 521
5, 821, 200	5, 084, 200	5, 948, 800	8, 498, 600	7, 224, 800	7, 414, 000	7, 475, 600	6, 981, 030
4, 391, 272	<b>2, 947, 496</b>	· 3, 556, 463	4, 600, 848	3, 828 <b>, 927</b>	3, 725, 093	8, 707, 916	3, 361, 674
73, 530, 600	87, 318, 000	95, 048, 800	108, 935, 200	86, 026, 600	86, 519, 400	82, 313, 000	96, 126, 975
8, 538, 123	4, 115, 918	4, 528, 562	5, 039, 302	5, 455, 721	5, 864, 049	5, 195, 758	5, 555, 891
12, 717, 080 17, 675, 826	17, 940, 560 29, 220, 272	8, 44R, 666 13, 814, 491	5, 414, 498 7, 605, 881	6, 046, 806 7, 788, 111	8, <b>536</b> , 826 10, 816, 429	12, 970, 540 14, 786, 708	<b>26, 5</b> 80, 240 27, <b>2</b> 32, 107
23, 399, 200	27, 040, 200	23, 168, 200	29, 387, 600	80, 096, 000	29, 882, 600	84, 428, 400	88, 644, 880
5, 131, 677	5, 930, 504	5, 284, 840	6, 464, 728	7, 130, 771	7, 121, 121	7, 982, 287	8, 966, 780
7, 822	10, 221	17, 464	20, 584	15, 797	17, 467	22, 743	21, 791
1, 056, 675	2, 169, 909	8, 370, 552	4, 369, 906	3, 883, 761	3, 709, 802	4, 828, 281	4, 626, 210
47, 798	60, 248	63, 219	92, 437	96, 148	116, 697	125, 387	135, 516
2, 889, 596	2, 884, 345	8, 265, 174	4, 167, 160	8, 618, 948	4, 161, 080	4, 015, 865	8, 986, 222
11, 657, 800 3, 950, 710	8, 032, 200 2, 818, 765	8, 419, 400 2, 806, 413	12, 104, 400 8, 822, 558	12, 766, 600 3, 809, 627	13, 860, 600 4, 038, 088	15, 312, 000 4, 133, 674	13, 278, 510 3, 656, 192
3, 727, 795	3, 431, 926	5, 014, 140	5, 983, 772	7, 496, 506	7, 701, 838	7, 740, 458	8, 448, 171
2, 560, 800	11, 008, 800	8, 128, 400	19, 740, 000	4, 246, 000	24, 250, 600	20, 559, 000	40, 025, 160
816, 327	1, 255, 658	856, 857	2, 164, 688	409, 932	2, 840, 818	2, 073, 978	8, 853, 651
103, 851, 000	128, 834, 200	126, 656, 200	181, 056, 200	134, 642, 200	148, 786, 000	162, 124, 600	204, 434, 370
3, 733, 073	3, 890, 624	8, 833, 803	3, 334, 268	8, 442, 155	8, 785, 809	8, 840, 121	3, 578, 799
39, 801	60, 722	61, 479	80, 159	146, 595	130, 481	108, 780	113, 424
1, 241, 183	1, 917, 648	2, 941, 820	2, 742, 530	4, 620, 084	3, 482, <b>69</b> 8	2, 764, 918	2, 925, 494
26, 305, 400	56, 529, 000	117, 119, 200	50, 332, 200	96, 415, 000		207, 8 <b>86</b> , 800	100, 629, 586
1, 038, 533	1, 983, 654	8, 801, 521	1, 521, 612	2, 664, 365	<b>4, 463, 818</b>	5, 102, 534	1, 890, 049
2, 439, 800	2, 970, 000	2, 428, 800	1, 577, 400	1, 918, 400	1, 922, 800	2, 171, 400	88 <b>9</b> , 000
11, 126, 836 486, 200	13, 548, 600 462, 000	10, 228, 421 554, 400	<b>6, 645, 955</b> 728, 200	7, 573, 820 638, 000	7, 068, 292 657, 400	7, 609, 990 695, 200	5, 672, 656 782, 775
4, 524, 692	17, 156, 928	8, 628, 442	4, 685, 654	3, 880, 265	4, 005, 715	4, 012, 663	4, 560, 204
103, 327	224, 952	53, 273	61, 492	41, 188			•••••
679, 116	2, 859, 811	1, 869, 898	2, 049, 853	1, 299, 276			•••••
05, 201, 800	142, 956, 000	79, 543, 200	129, 170, 800	185, 491, 400	171, 362, 400	194, 491, 000	804, 787, 805
6, 460, 289	8, 778, 798	4, 535, 693	7, 865, 652	7, 131, 786	8, 268, 313	6, 824, 860	12, 600, 584
65, 621, 600 4, 415, 261	80, 511, 200 <b>6, 356, 64</b> 8	82, 623, 800 2, 462, 765	88, 804, 200 2, <b>6</b> 88, <b>29</b> 7	42, 303, 800 2, 785, 376	32, 447, 800 1, <b>992</b> , 725	16, 711, 20) 806, 354	28, 753, 200 1, 316, 260
5, 541, 609	5, 619, 581	5, 728, 029	6, 5 <b>2</b> 7, 260	6, 034, 099	6, 694, 784	6, 530, 348	6, 988, 319
33, 226, 600	<b>32</b> , 368, 600	87, 083, 200	33, <b>653</b> , 400	46, 956, 800	20, 796, 600	28, <b>69</b> 2, 400	82, 455. 895
3, 641, 454	8, 178, 131	8. 318, 249	3, 895, 256	4, 902, 007	3, 240, 587	8, 847, 971	8, 926, 778
14, 885, 800	18, 770, 400	16, 121, 600	20, 979, 200	16, 517, 600	20, 988, 000	22, 156, 200	24, 499, 755
5, 426, 888	6, 591, 915	5, 940, 540	7, 361, 599	5, 796, 562	6, 170, 982	5, 677, 288	5, 599, 509
11, 032, 719	5, 739, 841	6, 541, 784	8, 362, 883	7, 812, 770	8, 025, 627	8, 708, 160	8, 068, 751
(*)	2, 287, 616	2, 860, 417	2, 898, 281	2, 835, 492	2, 838, 234	2, 492, 593	2, 242, 274
67, 394, 544	69, 951, 390	90, 661, 061	85, 198, 041	83, 170, 767	89, 823, 191	93, 240, 416	100, 226, 810
204, 877, 850	240, 676, 404	228, 931, 099	239, 071, 609	928 815 105	248, 237, 565	264 212 240	281, 348, 838

up to that period, included in "wool manufactures, pure,"

HTALY-Continued.

#### Quantities and value of the principal

Articles.	1878.	1874.	1875.	1876.	1877.
Animals:					
Horned cattle { number. dollars		43, 653 8, 407, 994	35, 846 3, 131, 618	64, 828 5, 148, 661	118, 386 9, 040, <b>69</b> 9
Swine and a number. dollars.	58, 658	50, 492 638, 637	37, 646 336, 013	105, 037 1, 390, 179	130, 201 1, <b>499, 99</b> 6
Horses { number. dollars		2, 129 132, 012	1, 874 96, 307	1, 535 111, 075	1, 874 149, 382
Coral, manufactures { pounds . dollars		81, 913 7, 185, 969	6, 031, 996	78, 863 6, 918, 471	123, 893 10, 868, 795
Cotton, raw	5, 112, 800 1, 009, 004	17, 067, 600 2, 994, 588	4, 378, 000 697, 116	1, 405, 800 209, 598	1, 746, 800 260, 094
Dyeing and tanning stuffs:			İ	·	· ·
Unground	700, 011	31, 664, 600 1, 166, 685	22, 275, 000 820, 636	21, 824, 000 804, 810	26, 425, 200 605, 241
Ground	. 804, 810	39, <b>6</b> 35, 200 1, 808, 824	49, 438, 400 2, 255, 205	55, 876, 200 2, 526, 370	4, 457, 20 203, 22
Eggs		19, 192, 800	19, 956, 200 1, 663, 081	54, 355, 400 4, 768, 451	46, 274, 80 4, 038, 98
Fruit:	-1 4441 458		_, 555, 664	-,, <b></b>	1, 555, 50
Oranges, bergamots, and pounds.		154, 886, 600	207, 319, 200	196, 266, 400	213, 340, 60
Almonds, shelled { dollars	4, 659, 020 12, 975, 600	3, 940, 481 14, 284, 600	6, 852, 209 10, 569, 600	6, 026, 232 18, 667, 000	6, 453, 92 5, 295, 40
Grain:	1, 707, 471	1, 887, 540	1, 390, 565	2, 697, 365	766, 59
Wheat Sushels.		1, 478, 556	2, 211, 000	2, 740, 780	2, 665, 66
erailop	. 6, 659, 991 . 118, 465	2, 090, 383 71, 196	2, 864, 892 151, 180	8, 895, 126 152, 455	<b>4, 067,</b> 08 <b>93,</b> 26
dollars	5, 220, 457 54, 707, 400	2, 537, 757 55, 085, 800	5, 060, 460 63, 157, 600	5, 617, 458	8, 742, 40
Hemp and flax, raw	. 4, 940, 414	5, 557, 628	5, 558, 014	50, 615, 400 5, 231, 458	40, 766, 40 2, 973, 51
Marble	. 23, 552	106, 128	95, 552	75, 114	76, 87
Meat and poultry					13, 004, 20
Olive of Sponeds .		1, 8±0, 843 104, 902, 600	1, 480, 810 203, 867, 400	1, 539, 868 178, 838, 000	2, 264, 04 132, 506, 00
eraugu	. 18, <b>608</b> , 481 . 146, 126, 200		28, 615, 724 160, 091, 800	23, 533, 455 117, 473, 400	19, 180, 84 95, 924, 40
clos, closulou	. 8, 266, 718	8, 814, 003	4, 915, 517	3, 606, 977	4, 207, 59
		8, 677			6, 53
FIRMOD )	7, 839, 200	3, 181, 798 6, 575, 800	8, 746, 095 7, 541, 600	4, 280, 161 7, 935, 400	2, 144, 42 5, 216, 20
dollars	. 69, 789, 572	48, 114, 321	47, 967, 641	69, 624, 750	34, 324, 47
Waste { pounds . dollars		6, 404, 200 7, 304, 664	5, 572, 600 4, 889, 462	8, 511, 200 4, 773, 662	8, 880, 80 4, 005, 81
Manufactures   pounds .   dollars	4 749 975	228, 054 8, 879, 107	161, 581 2, 261, 881	170, 820 2, 905, 167	135, 65 2, 031, 51
Skins, raw		18, 830 972, 913	42, 494 2, 178, 878	20, 124 5, 009, 776	21, 75 1, <b>091, 6</b> 0
Straw plaiting		6, 401	6, 837 4, 585, 294	5, 755 <b>3, 633, 611</b>	5, 75 2, 839, 03
Sulphur, unrefined 5 tons			286, 658	214, 219	229, 48
Wine in ceaks (gallons.	. 7, 687, 847	5, 018, 772 6, 842, 003	5, 605, 492 8, 585, 525	5, 449, 741 18, 157, 666	4, 831, 75 9, 878, 03
( uvimes.	<b>. 8, 925, 040 . 62, 258</b>	8, 004, 817 69, 455	8, 408, 730 70, 951	4, 807, 823 73, 312	2, 053, 71 87, 51
Zinc ore	. 878, 711		995, 880	1, 098, 345	1, 228, 44
All other articlesdollars	. 68, 238, 526	57, 119, 473	50, 398, 552	61, 546, 831	65, 948, 86
TOTAL EXPORTSdollars	. 218, 359, 428	188, 790, 477	197, 302, 168	238 289 921	191 835 63

ITALY—Continued.

articles of domestic production exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
128, 227 9, 898, 198	82, 550 6, 459, 131 °	54, 626 4, 767, 679	41, 916	82, 085 7, 205, 176	97, 911 9 605 815	55, 740	35, 694
93, 156	81, 807	56, 845	3, 320, 758 41, 525	27, 848	8, 695, 615 88, 661	4, 947, 941 45, 375	<b>3,</b> 058, 809 <b>88, 9</b> 80
1, 108, 206	1, 020, 970	753, 279	583, 645	853, 576	519, 556	471, 306	402, 791
2, 874 <b>332</b> , 702	3, 710 <b>644, 4</b> 27	3, 391 523, 609	3, 055 471, <b>69</b> 2	3, 507 541, 558	2, 739 422, 863	2, 724 420, 547	2, 561 3 <b>95, 84</b> 3
78, 356	74, 205	120, 828	190, 087	240, 500	256, 456	236, 003	244, 625
6, 483, 462	6, 515, 101	8, 480, 034	12, 506, 786	15, 823, 877	13, 498, 999	6, 211, 126	4, 282, 477
9, 826, 200 1, 292, 907	<b>26</b> , 825, 200 <b>4</b> , 158, 185	39, 789, <b>92</b> 0 6, 108, 450	36, 724, 600 5, 315, 992	82, 161, 800 4, 541, 270	48, 972, 000 5, 799, 650	44, 701, 800 5, 097, 323	42, 245, 595 <b>4,</b> 250, 246
41, 417, 200	83, 047, 200	24, 545, 400	24, <b>69</b> 2, 800	29, 169, 800	25, 115, 200	24, 767, 600	29, 547, 000
1, 090, 064	505, 467	581, 316	519, 942	614, 126	727, 031	716, 995	775, 860
<b>32, 798, 000 1, 157, 228</b>	59, 290, 000 1, 404, 847	55, 081, 400 1, 804, 680	56, 493, 800 1, 288, 674	60, 578, 000 1, 850, 421	56, 515, 800 1, 784, 864	45, 865, 600 1, 542, 456	48, 293, 910 1, 851, 000
50, 170, 400	51, 009, 200	55, 218, 400	48, 028, 200	56, 078, 000	52, 177, 400	65, 505, 000	63, 537, 870
5, 287, 814	5, 817, 218	6, 781, 248	5, 477, 340	6, 395, 441	5, 950, 576	7, 470, 644	7, 244, 611
211, 261, 600	218, 816, 400	204, 193, 000	281, 652, 800	262, 765, 800	238, 825, 400	381, 154, 400	835, 177, 640
4, 650, 721 18, 880, 400	5, 183, 015 11, 843, 200	4, 478, 872 12, 511, 400	5, 930, 118	7, 801, 903 16, 552, 800	7, 162, 280	6, 687, 450	5, 867, 586
2, 650, 083	2, 089, 804	2, 140, 870	13, 978, 800 2, 207, 148	2, 178, 198	18, 984, 800 2, 261, 574	20, 534, 200 2, 605, 900	17, 896, 075 2, 577, 129
2, 170, 666	833, 066	2, 964, 756	8, 475, 633	3, 527, 773	2, 940, 923	1, 891, 610	479, 918
<b>2, 855, 049</b> <b>102, 815</b>	1, 859, 492 69, 134	<b>4</b> , 681, 601 67, 486	<b>4, 939, 449 53, 024</b>	4, 549, 396 86, 611	8, 560, 464 94, 270	1, 574, 860	552, 559
3, 556, 797	2, 702, 386	2, 419, 062	1, 672, 152	2, 766, 462	2, 977, 218	95, 941 2, 899, 489	79, 550 2, 846, 494
73, 803, 400	80, 174, 600	50, 945, 400	61, 881, 600	61, 223, 800	78, 456, 400	74, 701, 000	69, 517, 190
6, 474, 571	7, 736, 791	4, 468, 143	5, 128, 782	4,748,765	5, 854, 269	5, 248, 056	5, 181, 085
78, 496 <b>2,</b> 358, 460	109, 898 5, 298, 622	119, 980 2, 929, 354	107, 185 8, 040, 908	121, 680 <b>8</b> , 228, 118	128, 806 4, 565, 029	125, 928 4, 237, 701	122, 939 <b>8, 720, 26</b> 5
12, 130, 800	18, 919, 400	13, 814, 400	12, 808, 400	15, 151, 400	17, 109, 400	16, 836, 600	20, 896, 785
2, 015, 118 113, 108, 600	2, 898, 218 195, 041, 000	1, 985, 777 126, 852, 000	1, 878, 392	2, 278, 365	2, 586, 779	2, 895, 130	8, 092, 439
16, 868, 536	27, 856, 857	16, 692, 570	149, 157, 800 18, 319, 367	179, 036, 200 18, 847, 801	177, 877, 200 19, 451, 119	118, 529, 400 14, 037, 662	79, 280, 775 9, 621, 918
158, 730, 000	166, 047, 200	167, 259, 400	183, 915, 600	175, 837, 800	169, 934, 600	157, 282, 400	151, 031, 475
4, 178, 064	6, 555, 052	6, 162, 183	6, 211, 705	5, 691, 877	5, 366, 751	4, 829, 246	4, 594, 721
9, 194 2, 484, 296	10, 016 2, 319, 667	13, 530 <b>8, 933, 9</b> 19	14, 512 8, 220, 977	7, 903 1, 753, 984	12, 107 2, 570, 874	9, 739 1, 973, 618	6, 807 1, 234, 621
6, 888, 200	6, 696, 800	7, 691, 200	9, 616, 200	9, 070, 600	9, 114, 600	8, 830, 800	9, 210, 285
43, 513, 978	45, 238, 428	47, 238, 662	59, 053, 561	51, 720, 526	47, 972, 466	46, 482, 120	44, 836, 782
4, 556, 200 3, 997, 802	4, 868, 600	4, 688, 200 5, 271, 216	5, 555, 000 6, 819, 592	4, 818, 000 5, 739, 627	5, <b>625</b> , 400 5, <b>696</b> , 202	5, 979, 600 5, 211, 000	4, 615, 065 8, 542, 129
212, 905	203, 824	216, 757	284, 212	276, 811	293, 916	406, 632	367, 888
2, 251, 845	1, 858, 590	2, 023, 026	2, 205, 990	2, 580, 989	2, 591, 025	8, 373, 640	2, 851, 575
25, 840 1, 271, 284	29, 825 1, 496, 715	27, 802 1, 448, 851	24, 442 1, 226, 515	27, 0°4 1, 544, 579	42, 457 2, 818, 877	47, 700 2, 649, 504	43, 952
6, 066	6, 192	6, 809	8, 224	10, 181	9, 866	9, 485	2, 503, 017 8, 207
3, 512, 214	2, 629, 046	2, 891, 140	3, 491, 949	4, 322, 814	8, 808, 276	4, 027, 851	3, 484, 615
240, 150 5, 056, 407	266, 498 4, 675, 811	315, 864 6, 484, 028	318, 802	300, <b>6</b> 82	817, 219	304, 931	818, 900
13, 868, 925	26, 659, 000	57, 826, 718	6, 482, 098 46, 018, 414	5, 908, 695 84, 659, 104	5, 844, 040 68, 974, 787	5, 182, 655 62, 896, 954	5, 024, 369 28, 674, 488
2, 026, 698	5, 129, 554	12, 671, 415	11, 765, 280	8, 858, 637	16, 119, 818	15, 042, 999	10, 784, 081
58, 792 722, 013	57, 409 840, 129	93, 830 1, 069, 992	77, 95 <del>9</del> 820, <b>68</b> 6	1:7, 595 1, 185, 406	117, 016 1, 231, 919	98, 519 1, 037, 182	118, 819 1, 238, 095
55, 685, 412	50, 744, 646	54, 685, 506	51, 419, 528	50, 366, 695	49, 717, 765	49, 246, 660	48, 883, 682
192, 729, 414	206, 849, 294	212, 970, 482	224, 718, 971	221, 867, 782	228, 050, 844	205, 620, 551	182, 542, 874

NORWAY.

### Value of imports from

Countries.	1873.	1874.	1875.	1676.	1877.
	Dollars.	Dollars.	Dollars.	Doliars.	Dollars.
Russia and Finland	••••	<b>5, 697,</b> 728	4, 362, 504	5, 395, 230	5, 864, 408
Sweden		3, 520, 984	3, 526, 880	3, 812, 248	S, 731, 960
Denmark		<b>5, 25</b> 2, 5 <b>3</b> 2	5, 694, 768	5, 128, 189	4, 825, 608
Germany		13, 259, 836	12, 632, 548	11, 957, 624	14, 561, 780
United Kingdom		14, 843, 984	13, 809, 504	12, 145, 492	13, 388, 744
Holland		1, 816, 772	1, 583, 344	1, 836, 604	2, 107, 552
Belgium		807, 752	586, 116	663, 176	639, 448
France	••••••	2, 874, 480	2, 305, 068	2, 630, 080	2, 559, 936
Portagal		525, 816	408, 432	<b>36</b> 8, 232	490, 976
Brazil		680, 720	887, 348	<b>375, 736</b>	741, 824
North America		544, 308	651, 240	564, 944	1, 051, 900
All other		463, 824	944, 932	<b>783, 1</b> 18	894, 760
TOTAL IMPORTS		49, 788, 236	47, 412, 684	44, 862, 664	50, 838, 896

### Value of exports to the

Countries.	1873.	1874.	1875.	1876.	1877.
		Dollars.	Dollars.	Dollars.	Dollars.
Russia and Finland	• • • • • • • • • • •	1, 884, 220	1, 531, 888	1, 282, 380	<b>623, 36</b> 8
Sweden		3, 905, 564	3, 415, 124	<b>3, 994, 808</b>	8, 222, 968
Denmark		<b>2, 101, 388</b>	1, 576, 376	1, 577, 180	1, 344, 020
Germany		5, 225, 464	4, 819, 176	5, 010, 008	4, 874, 052
United Kingdom	•••••	10, 151, 840	,7, 819, <b>436</b>	9, 754, 128	9, 181, 948
Holland		1, 960, 152	1, 675, 268	1, 800, 156	1, 744, 948
Belgium	• • • • • • • • • • • • • • • • • • • •	864, 836	626, 816	737, 536	548, 328
France		2, 873, 764	2, 074, 588	2, 806, 764	2, 503, 388
Spain		2, 410, 124	<b>2, 362, 6</b> 88	2, 809, 176	2, 633, 901
Italy and Austria		794, 084	979, 004	937, 196	1, 149, 720
All other countries	•••••	809, 360	857 <b>, 6</b> 00	921, 884	1, 415, 308
TOTAL EXPORTS		82, 480, 796	27, 787, 464	81, 660, 716	29, 242, 552

ROBWAY.

### the principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollare.	Dollare.	Dollars.	Dollars.
3, 969, 884	4, 344, 280	4, 129, 344	2, 674, 872	3, 481, 320	<b>3</b> , 913, 068	4, 208, 672,	4, 878, 584
3, 326, 148	3, 090, 308	3, 682, 760	4, 089, 948	5, 091, 916	5, 121, 748	3, 861, 344	4, 879, 120
4, 006, 332	3, 706, 976	4, 945, 672	5, 427, 268	4, 073, 064	8, 537, 600	8, 494, 328	3, 207, 960
11, 389, 464	9, 415, 108	10, 370, 260	12, 120, 300	13, 464, 052	12, 542, 400	12, 270, 648	- 11, 164, 880
9, 521, 772	10, 001, 760	11, 203, 204	11, 356, 768	11, 559, 376	11, 345, 244	11, 283, 336	10, 010, 604
1, 684, 112	1, 410, 484	1, 574, 292	1, 775, 232	1, 499, 996	1, 433, 264	1, 448, 540	1, 293, 904
554, 492	603, 852	<b>76</b> 2, <b>72</b> 8	<b>86</b> 2, <b>69</b> 2	664, 640	692, 512	715, 828	<b>685, 69</b> 6
1, 272, 464	1, 041, 180	1, <b>669</b> , 908	2, 610, 320	1, 451, 488	1, 581, 468	1, 487, 132	1, 222, 884
179, 560	854, 832	<b>893,</b> 960	447, 908	232, 088	259, 424	276, 844	159, 460
167, 282	179, 560	. 158, 120	84, 152	47, 168	11, 524	12, 864	37, 785
1, 080, 576	618, 008	502, 768	796, 764	688, 760	1, 657, 848	1, 724, 044	1, 978, 284
<b>461, 2</b> 28	616, 132	1, 040, 472	1, 983, 472	753, 482	1, 136, 320	1, 778, 748	558, 728
37,,613, 264	85, 472, 480	40, 433, 428	44, 229, 196	43, 007, 300	43, 232, 420	42, 557, 828	39, 022, 884

### principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
950, 884	884, 400	81 <b>6,</b> 0 <b>6</b> 0	1, 660, 796	1, 171, 160	864, 800	1, 139, 608	<b>743, 96</b> 8
2, 383, 324	2, 384, 664	3, 658, 786	3, 704, 564	4, 003, 884	3, 826, 504	3, 495, 256	3, 500, 080
1, 147, 040	1, 342, 412	1, 569, 944	1, 757, 276	1, 914, 860	1, 501, 604	1, 632, 385	1, 305, 696
4, 330, 612	4, 565, 380	3, 753, 608	4, 411, 280	4, 297, 916	4, 494, 360	4, 092, 896	<b>3, 252, 44</b> 8
7, 611, 468	<b>6</b> , 816, 580	10, 527, 040	10, 957, 448	10, 313, 176	10, 748, 676	9, 989, 432	9, 160, 766
1, 257, 456	1, 487, 668	1, 618, 092	1, 956, 400	1, 760, 052	1, 442, 912	1, 439, 696	1, 451, 488
500, 892	543, 772	774, 520	638, 108	948, 988	890, 028	1, 013, 308	1, 088, 616
1, 756, 204	1, 636, 676	2, 280, 948	2, 224, 936	2, 729, 312	2, 353, 844	2, 553, <b>296</b>	2, 1 <b>03, 53</b> 2
2, 938, 888	2, 557, 256	2, 533, 940	3, 320, 788	3, 492, 576	3, 256, 468	3, 056, 272	2, 717, 520
628, 460	860, 548	812, 844	883, 864	1, 196, 084	647, 488	856, 528	794, 620
1, 851, 632	832, 408	801, 320	894, 852	1, 124, 432	1, 099, 068	800, 715	1, 200, 650
<b>24,</b> 856, 840	28, 911, 764	29, 142, 052	32, 410, 312	32, 951, 940	31, 125, 252	30, 069, 382	27, 319, 384

#### NOBWAY-Continued.

# Quantities and value of principal

Articles.	1878.	1874.	1875.	1876.	1877.
Butter	783, 096	1, 088, 616	5, 777, 200 1, 294, 976	6, 578, 000 1, 602, 640	9, 900, 000 2, 077, 804
Cheese	58, 424	80, 400	1, 130, 800 128, 104	848, 800 109, 612	1, 097, 800 185, 340
Coaldollars	1, 683, 996	1, 621, 400	1, 676, 608	1, 864, 656	1, 817, 844
Coffee	3, 375, 996	2, 329, 724	15, 070, 000 8, 157, 576	15, 895, 000 8, 090, 576	16, 273, 400 3, 370, 100
Cotton	866, 444	898, 872	3, 929, 200 631, 676	5, 051, 200 599, 248	4, 107, 400 505, 180
Cotton manufacturesdollars	1, 468, 372	1, 827, 224	1, 638, 016	1, 846, 968	1, 530, 280
Cereals: Wheat	255, <b>404</b>	396, 640	326, 370 445, 416	187, 308 287, 028	173, 118 251, 920
Rye	5, 712, <b>6</b> 88	6, 209, 828	5, 545, 452 5, 747, 528	5, <b>61</b> 8, 464 5, 936, 200	7, 239, 738 7, 389, 028
Barley	1, 677, 412	2, 189, 328	1, 731, 180 1, 828, 204	1, 980, 924 1, 948, <b>62</b> 8	2, 290, 266 2, 207, 516
Flour (wheat)dollars	<b>593, 6</b> 20	664, 640	731, 908	<b>69</b> 8, 140	745, 576
Rye mealdollars	470, 072	534, 928	562, 532	558, 512	606, 484
Flax, hemp, and jute { pounds dollars	903, 160	823, 564	8, 395, 200 685, 544	8, 052, 8: 0 674, 824	9, 350, 000 741, 824
Hides and skins	1, 139, 000	1, 275, 144	5, <b>436</b> , 200 997, 764	4, 012, 800 850, 900	4, 888, 400 986, 240
Horses { number dollars	361 49, 580	635 88, 708	239 35, 876	65 10, 184	201 33, 7 <b>6</b> 8
Iron, wrought and unwrought tons dollars	969, 088	1, 270, 856	35, 357 1, 348, 308	26, 434 901, 552	45, 286 1, 209, 484
Ironware, nails, rails, &c { tons dollars	1, 266, 032	1, 969, 532	23, 532 1, 919, 684	21, 529 1, 687 <u>,</u> 596	21, 759 <b>1, 6</b> 73, 660
Lard	721, 456	762, 192	7, 572, 400 795, 602	9, 321, 400 1, 024, 564	13, 923, 800 1, 800, 872
Engines and machinerydollars	724, 672	1, 110, 860	928, 352	5 <del>94</del> , 424	701, 892
Salt	610, 236	883, 828	3, 346, 002 653, 652	2, 696, 100 503, 840	4, 188, 888 787, 586
Spirits and brandydollars	419, 420	746, 112	755, 706	691, 172	595, 496
Sugar, raw	664, 372	617, 740	10, 766, 800 608, 360	10, 056, 200 645, 344	12, 500, 400 852, 776
Sugar, refined	760, 696	714, 756	9, 653, 600 666, 516	10, 137, <b>6</b> 00 782, 828	11, 061, 600 906 108
Tobacco	723, 332	843, 396	4, 026, 000 851, 972	4, 897, 200 1, 031, 976	4, 950, 000 847, 148
Winedollars	616, 400	658, 744	675, 350	564, 676	604, 876
Wool	273, 628	298, 192	807, 400 272, 824	798, 600 268, 534	985, 000 327, 228
Wool manufacturesdollars	3, 05 <b>4, 664</b>	3, 882, 784	3, 407, 084	2, 536, 620	2, 958, 184
All other importsdollars	15, 006, 928	16, 505, 728	16, 972, 896	14, 846, 220	15, 744, 732
TOTAL IMPORTS	44, 807, 188	49, 788, 286	49, 412, 684	44, 862, 664	50, 858, 896

NORWAY-Continued.

and other articles imported. ,

1878.	1879.	1880.	1881.	1882.	1883.	1864.	1885.
6, <b>296</b> , 600	7, 070, 800	7, 411, 800	7, 724, 200	7, 301, 800	7, 010, 800	7, 627, 400	R, 354, 741
1, 150, 792	1, 133, 676	1, 578, 520	1, 599, 692	1, 498, 120	1, 367, 336	1, 347, 286	1, 318, 560
<b>684, 200</b>	565, 400	528, 000	517, 000	671, 000	620, 400	616, 800	579, 911
<b>88, 708</b>	73, 968	76, 112	81, 740	92, 192	81, 740	86, 564	7 <b>5,</b> 84
1, 532, 692	1, 587, 096	1, 548, 772	1, 756, 740	1, 929, 868	1, 916, 200	1, 889, 132	2, 081, 08
13, 422, 200	15, 884, 000	15, 767, 400	16, 726, 600	15, 384, 600	17, 586, 800	16, 218, 400	17, 441, 58
2, 821, 684	2, 519, 664	2, 362, 420	2, 139, 444	1, 686, 792	1, 928, 260	1, 807, 928	1, 738, 24
5, 075, 400	4, 851, 600	4, 497, 200	4, 829, 000	5, 345, 809	5, 126, 000	5, 104, 000	4, 434, 25
508, 620	530, 104	591, 568	646, 962	684, 740	599, 516	621, 760	517, 50
1, 128, 280	1, 067, 444	1, 201, 712	1, 353, 132	1, 278, 092	1, 271, 928	1, 440, 768	1, 170, 89
139, 062	105, 006	264, 034	278, 124	329, 208	232, 716	815, 018	280, <b>96</b>
187, 600	177, 952	898, 156	414, 060	429, 0 <b>6</b> 8	336, 840	843, 844	288, <b>90</b>
6, 220, 896	6, 064, 806	5, 875, 172	5, 890, 836	8, 458, 116	5, 782, 760	5, <b>63</b> 3, 430	6, 873, <b>68</b> 6
6, 209, 080	5, 448, 708	5, 962, 732	6, 900, 732	4, 907, 616	5, 028, 216	<b>4, 604</b> , 240	<b>5, 042, 6</b> 86
2, 057, 012	1, 455, 894	1, 912, 812	2, 207, 964	1, 947, 900	2, 009, 304	1, 878, 756	1, 966, 734
1, 769, 604	1, 801, 676	1, 609, 876	1, 958, 008	1, 503, 856	1, 518, 756	1, 398, 156	1, 811, 86
760, 316	786, 580	742, 628	714, 756	684, 472	812, 844	866, 444	793, 810
461, 764	519, 384	469, 536	632, 748	<b>694, 88</b> 8	1, 140, 340	861, 084	<b>687, 9</b> 56
8, 126, 800	7, 482, 200	8, 500, 800	8, 181, 800	9, <b>226, 800</b>	7, 634, 000	9, 818, 600	7, 893, 906
596, 836	895, 800	510, 004	470, 072	518, 312	478, 112	617, 740	507, 056
3, 075, 600	8, 000, 800	4, 591, 400	<b>5, 203, 000</b>	5, 324, 000	4, 721, 200	5, 187, 600	5, 245, 69:
763, 800	696, 264	1, 026, 490	828, <b>3</b> 88	873, 948	984, 864	1, 014, 112	989, 456
134	75	299	212	282	295	214	157
<b>20, 6</b> 86	9, 380	30, 284	22, <b>244</b>	31, 088	34, 304	25, 728	19, 020
22, 668	23, 699	19, 973	29, 968	29, 618	35, 842	86, 213	35, 520
609, 104	<b>6</b> 66, 248	585, 812	844, 200	935, 588	1, 000, 176	<b>946</b> , 570	<b>909, 3</b> 2
11, 613	16, 122	11, 629	12, 769	13, 584	9, 788	11, 967	12, 354
1, 005, 000	1, 268, 712	991, 064	1, 185, 096	1, 118, 900	1, 083, 524	1, 228, 512	1, 104, 421
14, 762, 000	12, 558, 400	12, 254, 400	11, 239, 800	6, 173, 200	10, 238, 800	8, 663, 600	13, 274, 100
996, 156	<b>276, 89</b> 6	1, 098, 264	1, 040, 912	<b>661,</b> 960	991, 332	701, 892	972, 57
344, 880	480, 100	300, 964	<b>544, 308</b>	529, 032	645, 344	792, 744	597, 50
2, 471, 898	8, 073, 554	2, 951, 520	8, 845, 500	8, 771, 702	2, 957, 196	8, 482, 226	2, 6 <b>26</b> , 776
895, 568	494, 728	519, 384	760, 048	662, 496	443, 272	476, 504	343, 806
<b>399</b> , <b>052</b>	273, 360	288, 904	332, 052	845, 452	872, 520	847, 864	355, 63
10, 007, 800	11, 646, 800	10, 498, 400	11, 204, 600	12, 804, 000	13, 943, 600	13, 811, 600	11, 649, 01.
546, 184	567, 624	563, 604	682, 596	686, <b>34</b> 8	712, 076	606, 484	438, 95
8, 815, 400	8, 113, 600	8, 687, 800	9, 457, 800	9, 684, 400	10, 214, 600	13, 019, 600	8, 921, 430
605, 144	489, 368	601, 992	685, 812	672, 680	659, 548	682, 060	411, 910
<b>4, 338,</b> 400 <b>667,</b> 588	4, 474, 800	5, 438, 400	4, 239, 400	3, 770, 800	8, 874, 200	4, 219, 600	8, 075, 97
	616, 936	627, 924	595, 764	497, 944	542, 700	618, 276	641, 50
458, 280	391, 280	520, 188	553, 152	534, 392	475, 700	468, 732	463, 64
607, 200	528, 000	792, 000	981, <b>2</b> 00	913, 000	952, <b>6</b> 00	1, 001, 000	1, 03 <b>6,</b> 85
205, 556	160, 376	289, 440	313, 828	296, 676	<b>307, 932</b>	804, 448	254, 33
2, 230, 832	1, 975, 160	2, 826, 176	3, 039, 120	8, 448, <b>892</b>	2, 913, 428	8, 144, 712	2, 521, 61
12, 464, 948	10, 475, 996	10, 108, 826	14, 183, 600	15, 802, 988	15, 586, 612	15, 118, 798	13, 465, 12
87, 618, 264	85, 472, 480	40, 438, 428	44, 229, 198	43, 007, 800	43, 232, 420	42, 557, 328	89, 022, 88

NORWAY-Continued.

#### Quantities and value of

Articles.	1873.	1874.	1875.	1876.	1877.
Beer { gallous } dollars	227, 533	168, 572	45, <b>63</b> 0 182, 776	54, 193 239, 056	64, 856 814, 090
Fish: Freshdollars	264, 516	185, 116	212, 256	194, 836	181, 436
Dried cod:	4, 174, 100	4, 521, 696	126, <b>92</b> 2, 400 4, <b>9</b> 57, 732	116, 001, 600 5, 576, 276	147, 481, 400 5, 779, 520
Herringsdollarsdollars	4, 188, 036 333, 392	4, 725, 108 319, 724	4, 603, 168 280, 560	5, 143, <del>99</del> 2 528, 764	8, 619, 072 459, 520
Total flahdollars	8, 960, 044	9, 751, 644	10, 153, 716	11, 443, 868	10, 039, 548
Grain, oatsdollars Horsesdollars	209, 020 6, 432	216, 812 8, 040	157, 852 <b>6, 432</b>	273, 3 <b>6</b> 0 17, 420	80, 6 <b>8</b> 8 <b>K, 040</b>
Ico	154, 188 314, 632 77, 968	143, 512 366, 856 97, 016	126, 915 192, 960 134, 804	141, 775 212, 792 226, 460	209, 220 224, 816 293, 460
Skins: { pounds { dollars	259, 156	171, 282	561, 000 185, 992	<b>49</b> 5, 000 120, 600	528, 800 115, 240
Seal	122, 024 130, 784	107, 856 103, 448	44, 818 62, 444	59, 911 104, 252	53, 852 79, 828
Sulphur	277, 700 1, 538, 856	344, 648 1, 425, 760	88, 290, 400 172, 456 1, <b>53</b> 5, 228	75, 488, 600 128, 640 1, 420, 668	79, 646, 600 135, 876 1, 823, 740
Wood: Rough or planeddollars Hewn, in boards, laths, &c.dollars Spars, stakes, rit-props, &c.dollars	3, 345, 176 7, 308, 090 1, 620, 328	8, 549, 928 7, 188, 882 1, 373, 768	2, 848, 572 4, 278, 620 895, 120	3, 091, 648 5, 384, 120 1, 285, 328	3, 819, 588 4, 965, 236 999, 908
Beams and other hewn wood, dol- lars. Staves, split wood, fire-wood, &c.,	1, 841, 964	1, 333, 032	1, 012, 236	1, 219, 972	891, 696
Total wooddollars	962, 388 15, 077, 946	945, 236 14, 390, 796	9, 700, 528	887, 080 11, 868, 148	726, 548
All other articlesdollars	5, 834, 510	5, 436, 482	5, 251, 336	5, 605, 452	4, 725, 264
TOTAL EXPORTSdollars	82, 414, 600	32, 480, 796	27, 736, 124	31, 660, 716	29, 242, 552

NORWAY-Continued.

principal and other articles exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
71, 449 846, 256	42, 886 199, 928	34, 293 143, 112	40, 697 190, 280	44, 970 214, 668	51, 960 243, 880	<b>89, 985</b> 170, <b>448</b>	102, 108
214, 400 25, 3 <b>69</b> , 200 5, 215, 280	230, 212 143, 748, 000 4, 862, 324	245, 220 158, 887, 000 4, 711, 172	264, 784 133, 749, 000 5, 935, 390	229, 408 121, 061, 600 6, 533, 840	286, 492 93, 211, 800 5, 785, 852	874, 664 113, 390, 200 5, 040, 812	581, 176 4, 547, 9 <b>6</b> 0
2, 692, 596 369, 572	8, 291, 576 439, 788	2, 547, 072 510, 808	4, 363, 040 726, 012	<b>3, 256, 468</b> 500, 088	8, 099, 956 865, 284	2, 829, 008 385, 586	2, 178, 304 346, 524
8, 491, 848	8, 828, 900	8, 014, 272	11, 289, 232	10, 519, 804	9, 537, 584	8, 580, 020	7, 603, 964
88, 848 9, 112	236, 644 26, 800	315, 972 51, 724	222, 440 39, 664	118, 972 18, 760	187, 832 13, <b>66</b> 8	150, 616 24, 888	232, 356 35, <b>64</b> 4
218, 214 280, 596 316, 240	188, 547 148, 472 <b>244</b> , 91 <b>6</b>	168, 240 175, 004 407, 360	170, 847 168, 840 626, 048	225, 172 763, 800 361, 800	216, 749 261, 300 341, 700	489, 970 972, 244 425, 584	213, 708 488, 048
490, 600 107, 460	778, 800 190, 280	970, 200 266, 396	895, 400 272, 556	1, 008, <b>6</b> 00 276, 844	935, 000 307, 396	970, 200 307, 932	381, 114
<b>66, 026</b> 70, 752	74, 020 69, 412	117, 029 141, 236	<b>60, 238</b> <b>80, 668</b>	103, 445 166, 428	135, 603 199, 928	109, 506 132, 124	77, 640
89, 520, 200 141, 772 1, 474, 268	92, 282, 400 174, 200 1, 286, 668	143, 567, 600 244, 952 1, 419, 060	185, 693, 800 ° 215, 472 1, 457, 884	136, 898, 400 245, 418 1, 442, 876	130, 717, 400 238, 788 1, 187, 240	150, 277, 600 311, 148 1, 529, 208	189, 878 1, 401, 211
2, 825, 524 2, 995, 168 704, 804	2, 737, 888 2, 065, 476 613, 988	3, 866, 436 3, 489, 628 1, 152, 936	4, 359, 288 3, 142, 568 1, 065, 800	4, 534, 024 3, 609, 150 1, 018, 844	4, 447, 192 2, 986, 058 997, 498	3, 847, 676 2, 863, 312 951, 182	8, 855, 716 2, 676, 516 666, 248
681, 792	602, 732	712, 344	588, 796	745, 576	-404, 948	420, 224	349, 472
642, 664	624, 172	911, 736	966, 944	998, 568	1, 096, 924	976, 200	823, 296
7, 849, 452	6, 644, 256	10, 133, 080	10, 122, 896	10, 901, 168	9, 932, 616	9, 060, 544	8, 371, 248
5, 385, 786	8, 454, 020	7, 830, 052	7, 724, 882	7, 921, 902	8, 701, 676	8, 405, 076	8, 277, 475
<b>24, 556, 84</b> 0	21, 499, 496	29, 142, 052	82, 410, 812	82, 951, 940	81, 128, 108	80, 069, 382	27, 819, 886

PORTUGAL.

## Value of imports from principal countries entered

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Russia	971, 244	747, <b>46</b> 8	1, 293, 624	556, 092	550, 152
Sweden and Norway	630, 808	834, 840	790, 236	997, 920	1, 311, 768
Germany	1, 130, 004	605, 448	879, 012	682, 992	1, 211, 976
United Kingdom	20, 365, 884	14, 360, 486	19, 883, 340	18, 944, 604	14, 836, 608
Holland	413, 532	780, 516	<b>4</b> 70, 01 <b>6</b>	321, 722	269, 460
Belgium	152, 848	69, 876	379, 296	604, 476	876, 960
France	4, 440, 204	4, 752, 864	6, 386, 256	5, 896, 908	5, 573, 232
Spain	2, 692, 224	3, 511, 9 <del>44</del>	2, 449, 224	2, 310, 552	3, 120, 876
Italy	92, 016	88, 884	217, 080	286, 848	264, 384
United States	1, 016, 280	1, 387, 800	2, 489, 400	2, 310, 120	<b>2,</b> 31 <b>9,</b> 084
Brazil	3, 455, 136	3, 434, 508	2, 681, 640	2, (89, 260	2, 877, 660
Morocco	<b>324, 64</b> 8	100, 116	137, 976	<b>301, 644</b>	428, 112
Portuguese Africa	808, <del>596</del>	895, 428	826, 632	800, 820	818, 532
Portuguese Asia	54, 962	11, 664	33, 048	63, 828	14, 472
All other	201, 294	90, 612	32, 340	1, 154, 854	64, 044
TOTAL IMPORTS	36, 769, 680	31, 672, 404	38, 949, 120	37, 320, 640	34, 537, 320

# Value of exports of domestic produce to

Conatries.	1873.	1874.	1875.	1876.	1877.
	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Russia	<b>481, 596</b>	388, 908	201, 744	184, 680	8, 964
Sweden and Norway	328, 212	506, 196	101, 304	163, 944	24, 732
Germany	521, 100	961, 848	884, 520	992, 736	970, 448
United Kingdom	14, 774, 464	12, 913, 560	15, 025, 824	12, 782, 340	13, 487, 772
Holland	524, 998	325, 320	276, 048	206, 820	135, 432
Belgium	243, 972	431, 568	103, 464	143, 208	94, 284
France	1, 127, 628	1, 066, 608	1, 373, 652	2, 345, 976	2, 230, 308
Spain	1, 967, 220	1, 511, 892	1, 437, 372	1, 427, 220	1, 741, 176
Italy	254, 988	233, 280	153, 900	155, 952	173, 016
United States	199, 152	288, 252	406, 836	432, 540	821, 880
Brazil	3, 840, 048	4, 619, 980	4, 504, 464	4, 035, 204	5, 708, 664
Morocco	3, 348	13, 284	105, 624	95, 040	3, 024
Portuguese Africa	545, 724	906, 444	1, 163, 592	1, 055, 756	776, 520
Portuguese Asia	18, <b>46</b> 8	24, 516	23, 112	<b>52, 8</b> 12	67, 932
All other countries	<b>670, 2</b> 82	647, 264	571, 104	413, 692	309, 808
TOTAL EXPORTS	25, 504, 200	24, 838, 920	26, 332, 560	24, 487, 920	26, 553, 960

PORTUGAL.

### for home consumption (bullion and specie included).

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollare.	Dollari.	Dollars.	Dollars.	Dollars.
628, 236	589, 032	557, 280	<b>554,</b> 2 <b>56</b>	807, 840			
1, 470, 204	976, 478	1, 308, 960	.828, 036	801, 360	 		• • • • • • • • • • • • • • • • • • • •
1, 253, 016	1, 758, 564	2, 008, 840	2, 721, 600	2, 883, 600	1		
16, 273, 116	13, 692, 132	16, 450, 560	16, <b>49</b> 3, <b>43</b> 6	16, 431, 120		•••••	
346, 680	442, 692	297, 000	414, 720	276, 480	r 		
1, 182, 168	1, 285, 200	886, 680	975, 240	1, 084, 320			•••••
5, 165, 748	4, 606, 092	4, 471, 200	4, 753, 836	4, 410, 720			••••
2, 706, 696	2, 647, 620	2, 256, 120	2, 856, 776	2, 114, 640	•••••		•••••
188, 784	301, 6 <del>44</del>	432, 000	379, 080	709, 560			••••••
2, 455, 380	6, 468, 444	5, 720, 840	5, 985, 792	6, 145, 200		••••	•••••
2, 386, 368	2, 325, 888	2, 311, 200	2, 599, 884	2, 506, 680			•••••
109, 080	321, 840	81, 240	119, 850	213, 840			•••••
409, 644	750, 492	667, 440	782, 892	768, 120	•••••		•••••
37, 800	31, 212	54, 300	8, 748	2, 160	• • • • • • • • • • • •		•••••
178, 200	572, 350	237, 180	373, 494	849, 000			_
84, 791, 120	<b>36, 769, 6</b> 80	37, 743, 840	39, 347, 640	40, 004, 640	38, 004, 474	38, 213, 447	

# principal countries, bullion and specie included.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885,
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
118, 476	134, 352	<b>697, 248</b>	870, 440	409, 320	•••••	••••••	• • • • • • • • • • • • • • • • • • • •
76, 680	159, 300	482, 760	279, 612	244, 080		 	
599, 292	841, 428	1, 223, 100	804, 492	1, 011, 960			
11, 828, 732	11, 388, 168	11, 645, 424	9, 357, 120	13, 215, 960			
150, 444	177, 660	295, 704	166, 752	126, 440			
<b>331, 66</b> 8	465, 588	<b>345,</b> 708	304, 128	230, 040		• • • • • • • • • • • • • • • • • • • •	
1, 120, 608	1, 256, 580	1, 592, 136	2, 800, 872	2, 984, 040			,
1, 300, 104	1, 228, 824	1, 920, 132	1, 752, 192	1, 577, 880		••••	
249, 588	263, 864	825, 404	163, 080	179, 280		•••••	
340, 632	373, 896	658, 476	694, 980	754, 925	 		 
4, 617, 540	4, 678, 776	6, 441, 552	4, 880, 844	5, 449, 680			
7, 668	18, 900	10, 152	1, 944	7, 560			
708, 512	751, 140	784, 188	<b>6</b> 50, 160	639, 360			
45, 576	25, 596	26, 676	31, 428	32, 400			
214, 560	378, 088	244, 620	214, 076	309, 880			
21, 700, 080	22, 142, 160	26, 693, 280	22, 472, 120	27, 172, 800	25, 124, 807	23, 582, 988	

#### PORTUGAL—Continued.

### Quantities and value of principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Animals, living:  Cattle and hogs	<b>56</b> , 084	60, 942	55, 484	61, 432	105, 910
	918, 000	874, 800	783, 000	909, 860	1, 639, 440
Horses and mules { number dollars	2, 490	3, 048	8, 383	2, 513	2, 620
	212, 760	155, 520	167, 400	131, 760	105, 846
Butter	2, 119, 040	2, 017, 400	2, 236, 620	2, 370, 500	2, 670, 140
	543, 240	583, 200	602, 640	570, 240	284, 040
Coal { tons { dollars	286, 427	204, 124	468, 445	459, 422	202, 582
	1, 630, 800	525, 960	2, 687, 040	1, 301, 400	1, 629, 720
Codfish	34, 566, 640	36, 753, 200	86, 744, 400	33, 875, 600	36, 8 <b>67, 600</b>
	1, 577, 880	1, 325, 160	1, 483, 920	1, 463, 400	1, 512, 720
Cotton	4, 331, 800	8, 608, 000	4, 582, 600	4, 490, 200	5, 898, 200
	581, 040	531, 260	619, 920	552, 960	<b>642, 60</b> 0
Cotton manufactures and yarns, dol- lars	4, 763, 880	3, 090, 960	<b>3, 009, 60</b> 0	3, 427, 920	3, 408, 480
Wheat	747, 850	804, 026	2, 524, 280	2, 891, 900	1, 518, 000
	1, 067, 600	1, 253, 440	3, 585, <b>600</b>	4, 136, 400	2, 169, 720
Maize { bushels dollars	367, 361	145, 475	623, 936	1, <b>90</b> 2, 882	820, 521
	245, 160	149, 040	724, 680	1, <b>85</b> 8, 680	819, 120
Hides, raw and dried	6, 680, 000	5, 789, 300	4, 874, 540	4, 896, 320	6. 094, 880
	1, 202, 040	978, 480	737, 640	568, 080	856, 440
Linen and hemp manufactures.dollars Machinery, industrialdollars	523, 800	299, 160 493, 560	873, 680 731, 160	232, 800 977, 400	322, 920 460, 080
Paper and manufactures { pounds dollars	721, <b>44</b> 0	429, 840	439, 560	387, 720	586, 440
Rice	15, 639, 800	13, 567, 400	28, 327, 200	28, 116, 000	25 <b>, 755, 4</b> 00
	402, 000	348, 840	757, 080	708, 480	649, 080
Sugar, raw	86, 260, 400	38, 033, 600	39, 875, 000	39, 212, 800	24,644,400
	2, 049, 840	2, 187, 000	2, 022, 840	1, 848, 960	2,412,960
Wool { pounds } dollars	5, 002, 800	4, 382, 400	5, 772, 800	3, 429, 800	<b>3, 583, 800</b>
	709, 560	724, 680	902, 880	649, 080	979. <b>120</b>
Wool manufacturesdollars All other articlesdollars	1, 767, 960	1, 786, 320	2, 319, 840	2, 137, 320	2, 001, 340
	17, 852, 680	15, 935, 184	16, 910, 640	15, <b>458</b> , 680	14, 126, 660
TOTAL IMPORTSdollars	36, 769, 680	31, 672, 404	38, 949, 120	37, 320, 640	34, 537, 320

PORTUGAL-Continued.

imported and entered for home consumption.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
76, 522	53, 446	<b>46, 23</b> 8	63, 335	64, 328	55, 063	52, <b>766</b>	51, 813
1, 132, <b>9</b> 20	804, 600	<b>638, 280</b>	793, 800	857, 520	8 <b>46,</b> 720	848, 880	988, 200
1, 578	1, 293	1, 267	3, 134	3, 654	2, 992	2, 112	1, 202
77, 760	109, 080	73, 440	145, 800	193, 480	170, 280	110, 160	<b>96</b> , 10 <b>0</b>
2, 672, 780	2, 884, 420	2, 901, 360	2, 718, 540	2, 598, 200	2, 389, 200	2, 477, 200	2, 474, 660
659, 880	<b>696, 6</b> 00	984, 960	638, 280	557, 260	605, 880	542, 1 <b>6</b> 0	561, 100
250, 769	278, 651	348, 759	353, 709	418, <b>96</b> 8	444, 972	471, 074	429, 088
1, 158, 840	1, 293, 840	1, 60 <b>3,</b> 800	1, 293, 840	1, 540, 080	1, 630, 800	1, 112, 400	1, 519, 500
36, 370, 600	38, 799, 200	43, 135, 400	45, 617, 000	43, 771, <b>2</b> 00	38, 177, 700	44, 290, 400	51, 270, <b>6</b> 00
1, 410, 480	1, 973, 760	1, 508, 760	1, 506, 600	1, 572, 480	1, <b>46</b> 9, 850	1, 702, 080	1, <b>894, 32</b> 0
5, 346, 000	6, 063, 200	8, 544, 800	7, 282, 000	7, 271, 000	8, 795, 600	8, 236, 800	9, 170, 595
632, 880	783, 000	930, 960	900, 190	870, 480	979, 5 <b>6</b> 0	891, 000	961, 200
3, 000, 210	2, 595, 240	· 2, 899, 800	2, 972, 160	8, 071, 520	3, 464, 640	3, 249, 720	8, 441, <b>9</b> 60
2, 702, 440	3, 214, 090	2, 600, 800	3, 000, 172	3, 934, 700	3, 146, 190	3, 804, 570	3, 767, 647
3, 838, 320	4, 923, 700	3, 686, 040	4, 807, 080	6, 045, 530	4, 104, 000	4, 188, 240	3, 887, 880
607, 502	3, 242, 564	1, 795, 043	798, 207	836, 707	1, 105, 225	1, 693, 279	644, 285
486, 000	2, 237, 760	1, <b>4</b> 61, 240	<b>691, 44</b> 0	<b>765,</b> 720	845, 640	1, 167, 480	452, 280
6, 224, 900	4, 460, 060	4, 373, 380	4, 450, 600	4, 642, 000	4, 087, 600	4, 672, 800	4, 432, 050
743, 040	512, 160	665, 280	770, 040	706, 820	616, 680	666, 360	639, 660
277, 560 579, 960	319, 680 481, 680	303, 480 995, 760	298, 080 570, 240	265, 680 359, 640	518, 400	668, 520	294, 880 616, 660
632, 880	544, 360	516, 240	501, 120	481, 680	503, 280	466, 560	<b>498, 96</b> 0
22, 882, 200	22, 968, 000	24, 767, 600	25, 082, 200	28, 109, 400	31, 926, 400	33, 028, 600	29, 161, 123
499, 260	581, 040	626, 400	604, 800	683, 800	716, 040	767, 880	687, 440
48, 527, 000	42, 702, 000	43, 806, 400	45, 392, 600	44, 710, 600	43, 667, 800	46, 853, 400	49, 735, 980
2, 127, 600	1, 894, 800	2, 218, 320	2, 148, 820	2, 147, 040	2, 057, 400	1, 925, 640	1, 755, 000
5, 583, 600	5, 602, 400	5, 132, 600	6, 355, 800	5, 383, 400	6, 034, 600	6, 325, 000	5, 256, 720
829, 440	628, 560	658, 800	840, 240	863, 680	740, 860	912, 640	875, 000
1, 522, 500	1, 121, 640	1, 283, 049	1, 615, 680	1, 458, 000	1, 597, 320	1, <b>689</b> , 120	1, 818, 720
15, 181, 540	15, 278, 780	16, 689, 242	18, 246, 430	17, 560, 720	17, 085, 600	17, 261, <b>60</b> 0	17, 111, 360
<b>34, 791, 120</b>	36, 769, 680	87, 743, 840	89, 347, 640	40, 004, 640	37, 962, 000	38, 170, 440	40, 080, 260

POBTUGAL-Continued.

### Quantities and values of

Articles.	1878.	1874.	1875.	1876.	1877.
Animals, living:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Cattle and hogs { number { dollars	122, 625 1, 754, 136	76, 772 1, 304, 856	1, 009, 311 2, 209, 972	10 <b>6, 4</b> 07 1, 570, 968	160, 075 1, 694, 196
Horses and mules { number dollars	1, 934 64, 692	896 28, 944	2, 218 37, 908	798 26, 892	1, 154 42, 768
Boots and shoes		405, 861 195, 480	433, 907 261, 360	235, 600 192, 240	207, 213 145, 040
Copper ore	244, 220 2, 143, 800	184, 858 1, 608, 768	184, 852 1, 712, 448	67, 950 605, 55 <b>6</b>	201, 826 1, 805, 652
Cork, unwrought	36, 446, 080 1, 040, 904	40, 929, 460 1, 112, 508	48, 926, 460 863, 568	35, 755, 720 846, 936	31, 740, 500 1, 028, 592
Cork, manufactured	1, 845, 800 213, 840	5, 103, 780 253, 044	4, 954, <b>6</b> 20 365, 148	2, 549, 800 199, 476	2, 169, 420 231, 660
Fish, sardines	15, 065, 820 201, 636	9, 879, 980 167, 184	10, 336, 920 187, 704	9, 107, 840 154, 440	
Alı other	231, 442 20, 952	7, 986, 000 153, 360	7, 794, 600 181, 440	9, 831, 800 155, 520	15, 848, 800 320, 760
Fruit: { pounds } dollars	26, 989, 600 508, 572	15, 294, 400 383, 400	7, 007, 000 173, 232	17, 470, 200 338, 040	10, 591, 100 252, 818
Oranges	236, 492, 000 214, 704	319, 618, 000 1, 006, 084	297, 319, 000 541, 728	551, 998, 000 601, 452	240, 316, 000 483, 516
Hides and skins	292, 600 48, 924	1, 576, 300 140, 616	494, 789 63, 504	2, 148, 520 183, 600	1, 760, 440 169, 992
Iron manufactures		1, 742, 400 105, 840	2, 598, 800 125, 280	2, 215, 400 110, 160	2, 316, 600 126, 360
Lees of winedollars	50, 976	52, 488	62, 208	56, 484	39, 528
Olive oil	1, 155, 100 720, 856	<b>G39, 740</b> <b>393,</b> 120	1, 140, 421 466, 020	998, 298 513, 432	329, 525 301, 044
Onions { pounds dollars	22, 453, 860 214, 704	235, 764	26, 492, 400 219, 588	17, 669, 008 191, 700	67, 726, 340 365, 904
Potatoes		16, 687, 000 201, 960	16, 698, 000 201, <b>9</b> 60	15, 114, 000 220, 320	12, 856, 800 189, 000
Salt		465, 344 649, 620	283, 253 304, <b>9</b> 92	270, 692 27 <b>4</b> , 752	210, 801 237, 81 <b>6</b>
Wax { pounds dollars		2, 393, 600 703, 080		3, 473, 800 862, 920	2, 270, 400 565, 920
Wine: Port	7, 548, 206 7, 662, 600	7, 568, 206 7, 548, 120	8, 566, 840 9, 770, 788	8, 313, 139 8, 410, 656	8, 690, 982 9, 228, 168
Madeira { gallons dollars	195, 697 454, 460	182, 990 425, 196	221, 902 461, 592	231, 519 476, 496	403, 837 611, 604
Other { gallons } dollars		6, 289, 412 1, 997, 028	4, 619, 924 1, 792, 800	5, 417, 123 2, 172, 312	5, 902, 327 2, 469, 960
Total winedollars	9, 510, 152	9, 970, 344	12, 025, 180	11, 065, 464	12, 309, 732
Wool	2, 401, 540 413, 316	1, 435, 280 234, 360	1, 592, 360 241, 920	1, 655, 280 217, 620	2, 172, 720 271, 0e0
All other articlesdollars	7, 988, 916	5, 938, 100	6, 057, 400	6, 099, 948	5, 908, 572
TOTAL EXPORTSdollars	25, 504, 200	24, 838, 920	26, 832, 560	24, 487, 920	26, 558, 960

PORTUGAL—Continued.

domestic produce exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
114, 405	108, 142	152, 261	186, 089	190, 204	224, 398	233, 853	186, 588
1, 642, 788	1, <b>66</b> 3, <b>09</b> 2	1, 837, 620	1, 712, 880	2, 668, 680	2, 843, 640	<b>2, 334, 96</b> 0	1, 391, 040
982	<b>4, 26</b> 8 56, 160	2, 521	4, <b>266</b>	3, <del>644</del>	5, 2 <b>37</b>	4, 334	2, <b>32</b> 5
38, 772		109, 080	198, 720	182, 520	2 <b>6</b> 0, 280	211, 680	120, <b>96</b> 0
221, 119	208, 501	635, 540	576, 154	574, 102	449, <b>69</b> 6	517, 687	514, 946
159, 840	167, 400	230, 040	317, 520	18 <b>9,</b> 000	1 <b>69</b> , 560	207, 860	183, <b>6</b> 00
192, 903	102, 486	196, <b>92</b> 5	170, 060	180, 845	150, 461	118, 281	57, <b>659</b>
1, 716, 012	912, 816	1, 863, 216	1, 513, 080	1, 348, 920	1, <b>834</b> , 880	1, 065, <b>96</b> 0	521, 640
24, 955, 490	24, 156, 000	38, 436, 640	41, 789, 000	49, 636, 400	42, 957, 200	47, 522, 200	53, 100, 810
1, 167, 696	1, 119, 744	2, 544, 156	1, 872, 720	2, 807, 960	2, 014, 640	2, 136, 240	2, 289, 520
1, 428, 846	2, 024, 880	2, 537, 920	2, 508, 000	4, 483, 600	2, 916, 100	2, 560, 800	3, <b>292, 065</b>
160, 812	218, 484	435, 456	360, 720	426, 600	437, 400	603, 720	562, 680
5, 054, 060	6, 294, 200	8, <b>465, 6</b> 00	6, 124, 800	6, 925, 600	13, 252, 800	18, 893, 600	8, <b>356, 950</b>
90, 072	135, 812	218, <b>59</b> 2	133, <b>9</b> 20	139, 320	253, 800	307, 800	151, <b>200</b>
8, <b>683</b> , 400	2, 261, 600	9, 515, 000	12, 984, 400	10, 661, 200	9, 156, 400	10, 797, 600	11, 031, 615
173, 880	90, 720	282, 960	835, 880	492, 480	458, 680	469, 800	493, 560
7, 884, 800	15, 649, 700	16, 203, 440	18, 475, 600	12, 089, 000	19, 993, 600	11, 866, 800	14, 813, 190
215, 5 <b>6</b> 8	390, 528	481, 248	547, 560	258, 120	394, 200	234, 360	<b>292,</b> 680
446, 888, 000	188, 307, 000	146, 978, 000	. 158, 433, 000	155, 418, 000	100, <b>627, 00</b> 0	98, 055, 000	93, 239, 000
506, 412	, 202, 716	406, 888	374, 760	441, 720	211, <b>68</b> 0	195, 480	178, 200
1, 079, 980	1, 981, 320	1, 003, 860	1, 144, 000	1, 771, 100	1, 612, 600	1, 386, 000	<b>9</b> 85, 700
174, 312	155, 412	156, 816	162, 000	251, 640	181, 440	140, 400	106, 920
2, 312, 000	1, 938, 200	1, 082, 400	2, 884, 200	818, 400	1, 727, 000	1, 654, 400	1, 499, 400
<b>97, 20</b> 0	111, 240	89, 640	74, 520	55, 080	112, 320	102, 600	75, 600
<b>45, 2</b> 62	64, 476	- 81, 0 <u>0</u> 0	<b>125, 28</b> 0	225, 720	104, 760	138, 240	147, 960
589, 435	190, 700	127, 082	164, 087	155, 140	<b>261, 100</b> 152, 280	388, 791	<b>399</b> , 184
378, 216	117, 612	96, 768	116, 640	111, 240		267, 840	244, 080
20, 412, 260	27, 544, 660	<b>30,</b> 587, 920	26, 241, 600	35, 156, 000	30, 525, 000	28, <b>934</b> , 000	34, 400, 205
250, 884	854, 564	<b>4</b> 51, 308	280, 800	342, 360	169, 560	213, 840	201, 960
12, 845, 800	172, 800	17, 826, 600	5, 744, 200	12, 599, 400	10, 472, 000	9, 143, 200	10, 098, 900
189, 000		191, 160	56, 160	124, 200	109, 080	114, 480	99, 860
113, 599	302, 076	211, 513	188, <b>626</b>	125, 383	206, 904	128, 054	98, <b>223</b>
196, 560		324, 756	216, 000	181, 440	801, 320	189, 000	130, 780
2, 074, 600	4, 447, 000	2, 950, 200	519, 200	525, 800	475, 200	418, 000	399, 105
514, C80	1, 743, 120	653, 400	112, 320	127, 440	99, 360	86, 400	82, 080
<b>6, 923,</b> 156 5, 919, 872	6, 880, 968	8, 820, 7 <b>6</b> 8	7, 850, 947	8, <b>890</b> , <b>620</b>	9, 297, 252	8, 784, 577	9, 189, 655
	5, 547, 852	7, 0 <b>6</b> 0, 392	6, 410, 880	6, 118, 200	6, 705, 720	6, 528, 600	6, 534, 000
163, 125	269, 189	856, 191	841, 671	406, 214	839, 722	425, 868	497, 828
<b>351, 864</b>	482, 7 <b>6</b> 0	654, 264	675, 000	842, 400	608, 040	652, 860	723, 600
4, 138, 038	3, 931, 955	6, 485, 585	10, 340, 182	11, <b>750,</b> 625	13, 848, 748	12, 457, 726	<b>29, 610, 551</b>
1, 547, 964	1, 648, 836	2, 633, 064	8, 505, 680	4, 011, 120	4, 552, 760	4, 338, 360	8, <b>792, 2</b> 50
7, 819, 200	7, 679, 448	10, 347, 720	10, 591, 860	10, 971, 720	11, 876, 520	11, 519, 820	16, 049, 880
1, 935, 120	1, 589, 060	2, 665, 740	1, 339, 800	1, 687, 400	1, 760, 000	1, 280, 400	1, 514, 835
240, 192	180, 468	411, 696	213, 840	238, 680	219, 240	144, 720	160, 920
5, 932, 832	6, 303, 472	5, 477, 760	3, 155, 240	6, 087, 960	8, 415, 080	2, 928, 420	3, 488, 380
21, 709, 080	22, 142, 160	26, 693, 280	22, 472, 120	27, 172, 800	25, 119, 720	23, 613, 120	28, 973, 000

#### RUSSIA IN EUBOPE.

## Value of imports from

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollare.	Dollare.	Dollare.	Dollars.	Dollare.
Germany	128, 183, 160	132, 656, 554	162, 571, 458	145, 122, 076	108, 978, 448
United Kingdom	99, 225, 968	94, 219, 176	98, 138, 736	76, 654, 556	68, 123, 274
Austria-Hungary	15, 327, 505	15, 198, 938	18, 951, 146	17, 852, 494	14, 647, 704
France	19, 895, 026	14, 481, 086	24, 428, 254	13, 198, 788	7, 453, 036
Turkey	11, 587, 847	9, 342, 352	11, 231, 668	16, 148, 000	3, 264, 832
Italy	8, 648, 442	8, 062, 256	8, 147, 400	5, 775, 112	4, 771, 734
United States	12, 690, 606	7, 727, 552	5, 954, 942	8, 429, 256	5, 027, 900
Holland	4, 097, 727	7, 090, 440	9, 028, 200	5, 037, 442	4, 673, 378
Belgium	3, 610, 013	3, 917, 358	3, 711, 838	4, 779, 366	3, 522, 466
Norway and Sweden	2, 306, 611	2, 203, 468	2, 342, 194	2, 048, 594	1, 482, 680
Roumania	2, 994, 196	1, 823, 522	1, 305, 334	2, 293, 016	834, 555
Greece	1, 916, 131	1, 826, 192	1, 728, 570	1, 040, 812	713, 448
South America	530, 158	11, 878, 322	14, 620, 546	413, 242	7, 400, 188
All other countries	10, 489, 126	10, 564, 196	13, 667, 714	10, 364, 522	2, 160, 707
TOTAL IMPORTS	321, 002, 506	320, 991, 412	375, 918, 100	308, 657, 276	233, 063, 350

## Value of exports to

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollars.	Dollare.	Dollars.	Dollare.	Dollars.
United Kingdom	100, 684, 437	105, 807, 725	95, 977, 106	97, 105, 998	108, 964, 502
Germany	85, 393, 077	105, 307, 734	80, 598, 338	88, 445, 532	144, 400, 554
France	20, 512, 156	25, 684, 512	27, 568, 306	22, 014, 862	17, 640, 222
Austria	19, 785, 528	<b>25, 96</b> 3, 455	12, 209, 356	19, 594, 130	36, 567, 880
Holland	14, 347, 305	14, 628, 479	13, 511, 472	18, 212, 068	28, 439, 564
Belgium	7, 128, 198	7, 586, 144	8, 508, 528	8, 520, 272	9, 666, 046
Turkey	3, 480, 960	8, 404, 809	7, 702, 596	5, 151, 946	2, 531, 566
Norway and Sweden	5, 017, 089	9, 259, 517	6, 432, 776	6, 631, 690	14, 687, 340
Italy	5, 474, 742	6, 757, 269	4, 840, 730	4, 512, 632	1, 503, 232
Roumania	1, 096, 347	1, 417, 248	1, 240, 460	1, 406, 344	2, 519, 088
Greece	894, 716	1, 101, 786	1, 125, 956	1, 056, 960	373, 606
Deumark	3, 616, 158	5, 128, 977	2, 262, 252	3, 998, 098	4, 879, 632
All other countries	1, 801, 730	894, 713	2, 703, 258	1, 724, 900	905, 756
Total exports	<del></del>	317, 331, 529	264, 681, 134	278, 375, 372	378, 078, 988

### RUSSIA IN EUROPE.

### principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollare.	Dollare.	Pollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
193, 138, 154	199, 614, 272	183, 1 <b>3</b> 5, <b>29</b> 2	144, 695, 516	140, 936, 862	109, 653, 700	113, 415, 510	91, 528, 840
118, 736, 978	109, 425, 668	100, 674, 465	71, 354, 178	82, 033, 518	86, 698, 050	79, 411, 110	60, 071, 148
19, 660, 930	14, 912, 128	15, 432, 492	15, 180, 718	19, 695, 914	16, 804, 450	13, 229, 595	13, 796, 112
14, 881, 382	15, 136, 528	13, 929, 918	12, 861, <b>26</b> 8	13, 103, 412	15, 142, 400	12, 055, 695	8, 777, 436
5, 084, 302	10, 626, 836	12, 749, 802	14, 737, 226	13, 463, 996	8, 554, 650	8, 908, 740	7, 456, 464
7, 041, 996	8, 930, 372	4, 220, 052	6, 273, 940	6, 150, 326	7, 658, 800	7, 582, 620	4, 116, 192
8, 400, 630	4, 804, 404	6, 826, 476	12, 051, 270	22, 720, 082	(*)	(*)	(*)
6, 063, 574	6, 416, 344	5, 030, 211	3, 116, <del>94</del> 6	6, 504, 330	4, 834, 700	3, 958, 365	3, 193, 356
4, 239, 584	5, 395, 324	4, 965, 987	18 <b>, 2</b> 21, <b>336</b>	7, 942, 060	6, 553, 950	6, 191, 355	5, 183, 400
2, 229, 158	<b>2, 63</b> 2, 960	1, 956, 828	4, 090, 786	4, 365, 172	4, 171, 050	8, 897, 220	3, 316, 104
579, 8 <b>6</b> 0	1, 407, 786	1, 194, 834	<b>621</b> , 810	1, 316, 000	1, 263, 600	1, 440, 930	1, 871, 748
1, 885, 646	2, 368, 916	1, 484, 511	1, 689, 086	1, 250, 200	1, 179, 725	1, 095, 210	<b>525, 386</b> .
<b>2</b> 7, 009, 732	24, 396, 020	10, 685, 937	9, 675, 890	(*)	(*)	(*)	(*)
5, 088, 550	6, 326, 584	12, 865, 237	13, 772, 030	22, 382, 528	71, 071, 925	62, 490, 050	41, 713, 484
414, 940, 476	412, 894, 092	874, 652, 042	828, 342, 000	841, 863, 900	333, 586, 500	313, 676, 400	241, 549, 620

## principal-countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.
140, 272, 538	137, 902, 576	99, 145, 800	102, 513, 110	188, 245, 142	136, 580, 600	98, 112, 885	97, 938, 912
1 <b>2</b> 8, 715, <b>6</b> 88	139, 596, 668	92, 403, 618	<b>97, 963, 69</b> 8	117, 136, 502	122, 749, 250	117, 981, 465	90, 476, 088
60, 727, 490	61, 827, 480	<b>35, 620, 905</b>	35, 191, 814	83, 723, 158	25, 534, 600	25, 337, 535	21, 518, 424
29, 572, 126	24, 582, 820	21, 773, 943	18, 493, 090	21, 916, 006	16, 163, 500	19, 919, 535	17, 257, 860
23, 735, 358	28, 980, 512	18, 869, 145	18, 679, 962	19, 478, 774	80, 214, 600	80, 869, 285	20, 668, 092
11, 062, 848	29, 0 <del>2</del> 7, 148	12, 643, 431	15, 697, 906	<b>19,</b> 118, <b>84</b> 8	28, 262, 200	14, 758, 245	14, 744, 386
11, 572, 344	9, 192, 920	9, 087, 696	6, 278, 372	9, 175, 810	5, 970, 900	5, 305, 770	7, 902, 936
10, 336, 922	9, 124, 104	8, 111, 625	8, 748, 504	7, 983, 514	12, 881, 450	11, 871, 225	11, 944, 716
10, 861, 668	9, 139, 064	3, 888, 897	8, 105, 102	5, 794, 848	4, 458, 850	12, 035, 300	16, 225, 632
8, 865, 390	6, 769, 400	6, 660, 564	5, 336, 380	4, 522, 434	8, 488, 350	5, 091, 630	2, 432, 064
1, 925, 282	1, 608, 200	1, 479, 159	1, 278, 494	2, 970, 212	8, 367, 000	3, 169, 175	5, 711, 916
4, 215, 062	3, 894, 068	3, 857, 454	1, 568, 014	2, 277, 338	******	·••••	•••••
1, 498, 414	952, 712	<b>5</b> , 14 <b>5</b> , <b>94</b> 8	1, 895, 039	6, 353, 648	10, 948, 750	11, 124, 725	9, 872, 628
437, 864, 080	453, 597, 672	818, 688, 185	316, 739, 486	888, 695, 734	395, 061, 550	855, 075, 725	316, 693, 656

<sup>\*</sup> Entered with "All other countries."

#### BUSSIA IN EUBOPE-Continued.

#### Quantities and values of

Articles.	1873.	1874.	1875.	1876.	1877.
Agricultural machinery dollars	1, 169, 897	2, 167, 705	2, 276, 134	1, 415, 152	947, 594
Books, maps, &cdollars	2, 185, 454	2, 235, 615	2, 327, 514	2, 891, 228	3, 846, 160
Chemicals and drugsdollars	8.412.752	7, 498, 609	10, 132, 136	4, 770, 266	3, 852, 766
Cool and colo	915, 378	1, 139, 106	1, 142, 838	1, 645, 649	1, 625, 621
Coal and coke	8, 174, 618	6, 905, 173	6, 389, 746	8, 929, 844	9, 534, 660
Coffee oonda	14, 754, 920	14, 870, 340	16, 826, 156	18, 021, 204	10, 333, 368
· Franco	100 171 030	4, 179, 527	4, 138, 292	4, 122, 878	2, 356, 874
Coton, raw	122, 171, 220 28, 985, 523	160, 371, 288 41, 643, 250	179, 304, 732   <b>38, 536, 46</b> 8	149, 782, 710 28, 162, 112	132, 251, 970 25, 930, 752
Cotton manufacturesdollars	5, 051, 482	4, 717, 402	4, 539, 056	8, 805, 056	1, 531, 858
Cotton yarndollars	10, 528, 303	10, 399, 429	11, 227, 264	10, 622, 448	4, 894, 458
Dresses, ready made dollars	1, 526, 423	1, 683, 849	1, 828, 394	1, 892, 398	971, 816
Engines and machinery dollars	14, 004, 812	13, 824, 172	23, 360, 284	14, 022, 836	14, 950, 092
Fish, herrings in barrels barrels . dollars	359, 355	430, 430	432, 622	364, 694	241, 878
rien, nerimge in barrole) dollars	3, 279, 725	3, 931, 808	3, 583, 388	8, 660, 458	1, 728, 570
Fruit and vegetablesdollars	8, 086, 873	7, 537, 194	7, 585, 244	9, 077, 878	4, 129, 484
Fursdollarsdollars	2, 391, 498	3, 052, 073 2, 339, 794	8, 552, 560 2, 566, 064	8, 090, 874 2, 332, 652	1,981,066 946,126
Glass and glasswaredollars pounds.	2, 319, 730 1, 501, 920	1, 978, 156	1, 664, 640	1, 529, 316	1, 292, 792
Indigo { dollars	3, 923, 323	4, 637, 145	3, 525, 402	3, 438, 056	3, 576, 448
Iron: Unwroughtdollars	1	1, 206, 167	1, 790, 226	1, 332, 944	1, 857, 900
Wroughtdollars	8, 646, 898	7, 520, 988	5, 320, 032	5, 130, 600	3, 322, 984
	128, 145	94, 049	63, 387	18, 574	18, 376
Rails		4, 478, 175		1, 456, 256	681, 152
Steel rails		102, 364		174, 167	187, 598
dollars	4, 139, 399	11, 777, 685	11, 218, 456	13, 829, 440	18, 633, 324
Lead tons				26, 865	20, 176
( uonara	1, 828, 929	2, 263, 396	1, 506, 168	8, 178, 220	2, 290, 814
Lace		1,656,068	1, 414, 418 2, 048, 456	986, 496	459, 484
Lime and comentdollars Linen manufacturesdollars		1, 913, 068 5, 867, 235	4, 169, 854	1, 561, 218 8, 954, 792	871, 992 3, 749, 272
Metal waresdollars		20, 775, 707	20, 568, 148	19, 161, 616	12, 620, 396
Oils: Petroleum, &c dollars	7 050 914	6, 188, 262	5 571 080	6 701 079	4 912 904
Other than mineraldollars	7, 959, 314 9, 883, 934	11, 376, 401	5, 571, 060 9, 120, 684	6, 721, 972 8, 404, 300	4, 213, 894 6, 378, 460
Plants and seedsdollars		939, 931	1, 086, 320	1, 502, 495	1, 527, 454
Railroad rolling-stockdollars	2, 216, 322	1, 647, 579	8, 752, 942	806, 666	1, 052, 556
Ricedollars	1, 487, 066	1, 398, 320	1, 238, 258	1, 272, 022	481, 504
Salt table (tons	223, 327	213, 628	212, 871	310, 860	111, 255
Salt, table	5, <b>689</b> , 744 541, 080	5, 565, 500 573, 560	5, 074, 142 657, 912	6, 130, 368 578, 736	2, 524, 960 868, 902
Silk, raw	6, 214, 500	5, 817, 846	6, 875, 378	5, 838, 970	2, 375, 958
Silk manufacturesdollars	4, 390, 211	4, 368, 594	4, 891, 376	3, 360, 986	1, 282, 298
Sugar, raw	4. 315, 320	12, 304, 756	51, 438, 240	14, 551, 128	39, 672
rea 5 pounds	25, 353, 408	1, 872, 916 25, 855, 244	5, 036, 708 28, 578, 356	1, 203, 026 33, 947, 036	8, 670 18, 441, 896
( domino		24, 229, 837	28, 334, 602	28, 901, 250	11, 836, 484
Fobacco in leaves and stalksdollars Watches and clocksdollars		5, 360, 228 4, <b>896</b> , 274	5, 643, 726 8, 733, 858	12, 911, 794 2, 252, 646	923, 872 1, 287, 436
Wine:	l	1		1	
In casks	7, 960, 980		6, 036, 274		1, 984, 090
Champagne { bottles { dollars	1, 191, 940 2, 528, 861	1, 159, 383 2, 392, 270	1, 126, 552 1, 951, 706	1, 570, 914 2, 479, 802	189, 297   349, 384
Wool, raw	16, 935, 876	19, 298, 052	23, 347, 152	16, 141, 212	12, 786, 552
Woolen goodsdollars	10, 254, 350 9, 871, 58d	12, 662, 055 10, 332, 291	14, 514, 850 11, 832, 080		8, 425, 680 4, 797, 424
TOTAL IMPORTSdollars					

#### BUSSIA IN BUROPE-Continued.

principal articles imported.

	1879.	1880.	1881.	1881.	1883.	1884.	1885.
2, 172, 494	2, 991, 252	8, 680, 838	5, 209, 784	<b>3.</b> 898, 650	8, 651, 050	8, 730, 680	1, 544, 20
2, 955, 084	8, 824, 524	2, 641, 119	2, 114, 154	3, 218, 936	3, 015, 339	8, 068, 910	1, 780, 80
19, 551, 558	17, 262, 092	12, 391, 218	11, 872, 294	17, 046, 786	9, 959, 300	9, 576, 315	8, 709, 48
2,000,101 13,176,768	1, 631, 266 9, 615, 540	2, 221, 42 l 11, 757, 745	1, <b>966, 933</b> 9, 704, 158	1, 900, 334 10, 183, 646	2, 489, 580 11, 789, 050	2, 101, 680 10, 290, 975	2, 007, 03 9, 826, 43
16, 102, 116	17, 008, 128	18, 001, 224	15, 279, 516	18, 319, 572	13, 932, 000	18, 216, 000	16, 920, 00
4, 187, 470	5, 116, 380	4, 769, 301	4, 018, 386	4, 497, 408	4, 251, 650	5, 559, 255	4, 719, 12
27, 895, 588	205, 954, 398	175, 917, 564	297, 983, 088	241, 567, 200	291, 240, 000	225, 972, 000	229, 608, 00
49, 837, 132	44, 861, 013	84, 755, 219	<b>55, 600, 34</b> 2	47, 450, 366	61, 011, 600	49, 133, 520	41, 955, 01
3, 338, 966	4, 473, 040	4, 032, 063	3, 098, 406	3, 583, 468	2, 528, 500	2, 189, 775	1, 893, 37
12, 285, 692 2, 003, 820	22, 758, 744 1, 596, 238	13, 905, 165	9, <b>393, 4</b> 08	10, 017, 393 1, 268, 624	6, 817, 200	5, 509, 590 2, 038, 200	4, 914, 90
31, 707, 832	22, 086, 944	1, 673, 169 29, 960, 904	1, 815, 342 9, 958, 172	13, 169, 212	1, 825, 850 12, 823, 850	10, 867, 605	2. 018, 67 7, 5 <b>9</b> 2, 50
427, 279	336, 504		507, 670	244, 584		10,000,000	
3, 940, 112	3, 257, 616	4, 216, 038	4, 488, 876	2, 021, 834	4, 468, 750	5, 575, 880	3, 820, 82
7, 328, 236	7, 796, 256	6, 972, 818	6, 925, 450	7, 943, 834	7, 696, 000	7, 685, 175	6, 427, 41
4, 064, 158 2, 064, 008	3, 542, 544 2, 829, 212	2, 716, 809 2, 7 <b>60</b> , 998	<b>2, 243</b> , 122 1, <b>6</b> 59, 108	8, 555, 833 2, 189, 824	5, 231, 201 1, <b>9</b> 18, 185	4, 540, 155 1, 778, 265	2, 591, 06 1, 728, 01
1, 698, 156	1, 754, 028	1, 822, 712	1, 976, 400	1, 632, 024	1, 548, 000	1, 620, 000	1, 120, 01
3, 730, 922	8, 633, 112	2, 741, 562	4, 082, 890	3, 789, 396	3, 655, 600	4, 067, 370	3, 150, 10
3, 311, 900	5, 096, 878	6, 057, 795	6, 053, 600	6, 354, 286	6, 256, 900	7, 232, 385	5, 551, 64
<b>5, 268, 58</b> 2	14, 526, 620	11, 439, 900	7, 869, 680	8, 700, 704	9, 134, 450	6, 687, 360	5, 547, 77
6, 262	1, 964	5, 085	1,099	992	687	198	60
315, <b>6</b> 20 1 <b>6</b> °, 613	175, 038 84, <b>46</b> 0	819, 782 55, 729	99, 358 14, 765	102, <b>64</b> 8 5, 152	70, 850 1, 383	19, 350 2, 328	29, 99 2, 25
16, 020, 284	8, 168, 908	4, 622, 1::1	1, 089, 648	540, 876	158, 600	206, 400	181, <b>6</b> 5
22, 287	21, 210	18, 079	20, 005	17, 252	20, 153	19, 873	12, 02
2, 742, 958	<b>2</b> , 726, 520	1, 972, 881	1, 892, 846	1, 531, 146	1, 554, 150	1, 509, 300	1, 102, 18
1, 074, 576 1, 407, 812	1, 142, 196 1, 883, 464	900, 474 2, 057, 175	770, 818 <b>662, 5</b> 86	1, <b>2</b> 23, 880 1, 108, 072	1, 004, 900 1, 238, 900	855, 270	694, 87
6, 670, 592	5, 844, 878	4, 983, 875	3, 732, 634	2, 599, 100	1, 896, 700	1, 951, 125 2, 465, 835	1, 272, 69 2, 641, 94
19, 846, 626	15, 890, 578	12, 653, 466	16, 586, 864				
5, 220, 208	8, 719, 820	2, 724, 168	2, 531, 306	1, 818, 028	796, 900	476, 010	247, 40
10, 224, 620	11, 301, 533	9, 785, 957	8, 093, 400	9, 867, 288	10, 895, 950	9, 879, 465	6, 910, 60
1, <b>566</b> , 356 <b>6</b> , 223, 128	1, <b>6</b> 50, 984	1, 618, 311	1, 583, 148 57, 904	2, 116, 760 25, 004	2, 575, 300	2, 797, 430	4, 210, 68
1, 203, 760	103, 972 <b>1, 544, 54</b> 0	351, 225 2, 353, 542	1, 838, 406	1, 934, 520	15, 600 1, 942, 850	2, 580 2, 028, 850	23, 59 1, 563, 28
181, 029	178, <b>94</b> 0	163, 076	204, 638	185, 238	175, 622	95, 940	47, 66
4, 657, 964	4, 900, 148	4, 121, 709	4, 670, 882	4, 891, 950	2, 503, 800	2, 089, 380	712, 32
982, 800	1, 232, 064	1, 105, <b>6</b> 32	928, 296	921, 456	945, 100	945, 000	1, 008, 00
8, 739, 004 2, 235, 764	10, 519, 140 2, 342, 736	7, 875, 725 2, 833, 472	7, 150, 46 <b>6</b> 1, 485, 764	6, 937, 294 1, 452, 864	6, 936, 150 1, 440, 400	6, 437, 745 1, 448, 670	4, 508, <b>6</b> 0 1, 249, 74
22, 320	20, 880		35, 532	1, 161, 936	1, 761, 000	18, 000	
1, 468	2, 543	4, 683	3, 029	116, 924	238, 550	2, 580	36, 00 3, 81
<b>26, 694,</b> 828	80, 805, 236	41, 278, 392	22, 511, 844	80, 069, 080	<b>82</b> , <b>65</b> 2, 000	25, 604, 000	27, 681, 00
<b>26, 141, 4</b> 10	80, 414, 588	42, 580, 512	24, 595, 780	31, 663, 878	35, 405, 500	36, 699, 210	18, 599, 18
3, 068, 854 3, 730, 922	8, 175, 276 4, 312, 220	5, 788, 857 8, 199, 158	2, 827, 406 4, 237, 520	3, 443, 972 3, 390, 674	2, 861, 800 2, 865, 700	2, 745, 765 2, 441, 970	2, 497, 48 1, 485, 69
5, 469, 034	7, 230, 916	9, 992, 184	0, 460, 902	7, 330, 120	9, 433, 550	10, 145, 560	4, 389, 67
562, 464	749, 639	1, 109, 369	369, 691	572, 647	612,000	609, 000	437, 00
876, 371	1, 619, 425	2, 065, 203	901, 918	1, 618, 680	1, 591, 200	1, 588, 635	1, 890, 93
28, 496, 916	33, 448, 572	29, 583, 144	26, 915, 688	29, 084, 970	21, 960, 000	18, 108, 800	22, 536, 00
17, 973, 458 7, 733, 424	22, 211, 118 9, 216, 108	16, 826, 945 8, 096, 907	15, 826, 216 5, 051, 838	18, 893, 766 5, 896, 338	14, 580, 150 4, 238, 000	12, 001, 515 4, 171, 215	18, 637, 13 2, <b>94</b> 8, 40
		886, 905, 446	313, 296, 172		333, 910, 200		

#### RUSSIA IN RUROPE-Continued.

### Quantities and values of the

Articles.	1873.	1874.	1875.	1876.	. 1877.
Animals, living (except horses).dollars	8, 238, 314	5, 915, 008	7, 069, 016	8, 636, 244	11, 541, 416
Brandy and corn spiritsdollars	2, 101, 081	5, 394, 583	8, 217, 856	1, 728, 570	3, 247, 950
Bristles { pounds	4, 839, 024	3, 654, 936	4, 821, 578	4, 131, 108	<b>5</b> , 034, 0 <b>96</b>
( dollars	2, 074, 962	2, 293, 396	3, 034, 356	2, 607, 168	2, 592, 488
Butter   pounds   dollars	4, 085, 300 793, 925	5, 624, 820 1, 063, 955	5, 869, 836 1, 146, 508	5, 537, 096 1, 124, 356	6, 683, 868 1, 159, 720
`	5, 552, 064	8, 851, 604	3, 488, 508	8, 322, 764	2, 072, 484
Caviar	989, 991	852, 728	772, 168	722, 226	783, 468
Cereals:				•	
Wheat { bushels	41, 742, 984	48, 737, 794	57, 171, 498	55, 620, 908	51, 949, 566
QOHATS	62, 119, 535	66, 207, 218	72, 861, 978	74, 713, 860	76, 653, 088
Rye S bushels . dollars	44, 335, 092 38, 071, 852	58, 246, 038 57, 551, 842	34, 265, 826 29, 463, 494	48, 428, 598 41, 990, 672	59, 984, 382 61, 677, 286
		13, 048, 824	8, 797, 716	8, 838, 024	12, 816, 744
Barley dollars	5, 561, 642	10, 586, 502	6, 451, 126	6, 637, 562	11, 200, 252
octa (bushels	23, 687, 640	32, 220, 702	29, 402, 514	81, 380, 528	45, 726, 540
Oate dollars	11,061,789	19, 263, 847	17, 264, 414	18, 311, 098	28, 790, 416
Maize Sbushels	3, 803, 940	808, 956	724, 164	2, 260, 800	3, 012, 360
( uouara	3, 224, 934	742, 875	894, 540	1, 296, 244	2, 016, 298
Peas		2, 180, 100	1,057,032	646, 416	1, 814, 354
dollara	1, 032, 566	2, 585, 516	1, 159, 720	685, 556	1, 832, 798
Greats Sushels	2, 646, 666	1, 470, 204	*10, 486, 740	2, 075, 580	2, 888, 388
Groats dollars	2, 746, 799	1, 518, 706	2, 447, 156	2, 424, 402	5, 783, 950
Catal amaila (bushels	124, 221, 486	156, 712, 618	142, 087, 490	149, 250, 846	178, 192, 334
Total cereals dollars	123, 819, 117	158, 456, 006			167, 954, 088
Flourdollars	2, 240, 338	3, 904, 030	8, 077, 662	2, 681, 302	5, 574, 780
Flax { tons	162, 747	179, 801	170, 619	147, 791	201, 785
( dollars	81, 449, 862	37, 270, 023	<b>38, 970, 254</b>	24, 112, 634	46, 374, 120
Tow { tons		12, 448	11, 869	28, 754	29, 198
( double	1, 364, 366	1, 575, 040 5, 216, 464	1, 506, 902	8, 430, 933	3, 071, 056
$\mathbf{Yarn} \dots $ { pounds } dollars	7, 769, 808 4, 240, 491	2, 800, 499	181, 098	1, 397, 052 171, 756	1,727,676 244,422
f nonnde	1 901 400	920 100		·	1 044 044
Furs { pounds } dollars	1, 881, 428, 1, <b>646,</b> 579	839, 196 1, 184, 331	1, 108, 476 1, 879, 040	1, 612, 080 1, 945, 100	1, 844, 244 1, 243, 896
Ctone		68, 564	1,000,020	48, 074	61, 063
Hemp dollars		10, 159, 751	8, 573, 854	6, 862, 165	11, 262, 778
Yarn Spounds		5, 264, 186	8, 006, 796	9, 490, 812	9, 449, 608
dollars	512, 408	1,842,755	761, 892	1, 117, 148	997, 506
Horses. (number	18, 986	24, 711	33, 343	42, 195	370
( doings	1, 309, 585	1, 470, 860	1, 550, 942	2, 099, 240	26, 424
Leather		9, 593, 568	8, 829, 608	7, 854, 768	10, 695, 276
dollars \ \ \text{tons} \	2, 819, 241 43, 739	2, 445, 099 51, 318	2, 188, 876 45, 959	2, 119, 792 38, 277	2, 839, 258 80, 677
Linseed		28, 555, 866	21, 062, 864	17, 472, 870	16, 677, 948
Other closeinous souds (tons	   <b>4, 174</b>	6, 668	7, 769	5, 690	3, 476
Other oleaginous seeds } dollars		2, 819, 823	2, 103, 644	1, 514, 976	1, 883, 590
Č tona		8, 673	8, 378	17, 653	4, 248
dollars	1, 805, 038	1, 450, 024	1, 094, 952	703, 906	527, 746
Sugar, raw					1 <b>29</b> , 924, 000
dollars				1, 479, 010	10, 970, 566
Sugar, refined { pounds		<b></b>		121, 032	10, 169, 460
( tone	1	9, 264	7, 408	13, 873	1, 033, 472
Tallow		2, 080, 503			19, 993 4, 464, 922
Wood, of all sortsdollars		28, 785, 805	19, 983, 884	22, 779, 690	23, 000, 624
Wool 5 pounds	24, 414, 588	87, 941, 696	31, 665, 528	42, 468, 768	48, 228, 552
Wool dollars		8, 754, 197		8, 774, 236	16, 422, 516
TOTAL EXPORTSdollars	268, 732, 443	317, 831, 529.	264, 681, 134	278, 375. 372	373, 078, 988
			,,		

<sup>\*</sup>As given in the official returns.

BUSSIA IN EUROPE-Continued.

exports to the principal articles.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
12, 826, 902	10, 881, 156	9, 029, 493	6, 597, 108	9, 779, 854	7, 988, 500	6, 667, 365	7, 230, 048
1, 607, 460	3, 504, 380	2, 572, 974	1, 081, 752	3, 960, 702	6, 652, 750	3, 785, 505	5, 024, 400
5, 075, 388	4, 152, 096	4, 715, 748	4, 444, 560	4, 732, 884	4, 220, 000	5, 858, 000	4, 932, 000
3, 338, 232	2, 505, 052	2, 953, 635	2, 677, 602	8, 868, 582	3, 331, 900	3, 288, 855	8, 510, 720
6, 267, 960	7, 162, 308	6, 751, 836	5, 609, 786	7, 736, 652	10, 440, 000	7, 560, 000	8, 172, 000
1, 136, 966	1, 400, 256	1, 090, 151	1, 044, 246	1, 398, 908	2, 221, 700	1, 762, 140	1, 257, 373
4, 495, 572	7, <b>26</b> 2, 856	<b>6, 668,</b> 028	6, 272, 820	8, 096, 576	9, 036, 000	14, 184, 000	5, 580, 000
1, 227, 982	1, 408, 240	1, 443, 702	1, 469, 814	2, 365, 536	2, 047, 500	2, 203, 320	<b>950,</b> 184
03, 595, 664	83, 531, 280	86, 781, 782	49, 834, 882	76, 937, 742	84, 896, 000	67, 220, 000	89, 198, 480
50, 090, 522	188, 909, 584	59, 580, 471	78, 569, 790	109, 493, 832	110, 626, 100	83, 806, 140	92, 010, 750
<b>60</b> , 0 <b>65</b> , 976	72, 125, 736	<b>35</b> , 804, 484	25, 549, 632	83, 898, 338	46, 092, 000	45, 972, 000	46, 967, 800
55, 951, 858 97, 928, 758	71, 987, 748 17, 289, 422	48, 614, 117	81, 616, 900	83, 814, 162 20, 394, 042	44, 101, 600 28, 898, 000	42, 728, 510   <b>25, 446, 000</b>	37, 089, 61: 25, 935, 056
27, 336, 756 19, 810, <b>46</b> 0	18, 610, 608	10, 463, 040 9, 125, 829	15, 512, 232 10, 967, 544	16, 844, 136	21, 833, 500	18, 692, 100	15, 840, 85
45, 778, 3 <b>6</b> 8	46, 770, 888	43, 178, 034	<b>39</b> , 053, 166	56, 360, 778	60, 174, 000	60, 882, 000	86, 284, 456
28, 204, 684	29, 830, 210	24, 515, 505	27, 161, 782	30, 975, 300	33, 871, 500	84, 038, 585	18, 846, 58
5, 989, 878	9, 350, 352	8, 502, 354	8, 152, 950	9, 880, 584	6, 654, 000	10, 284, 000	5, 210, 810
3, 093, 810	5, 838, 888	6, 953, 586	4, 223, 044	9, 452, 828	5, 678, 200	9, 809, 285	8, 896, 80
1, 333, 482	1, 174, 470	925, 098	777, 258	2, 675, 918	2, 298, 000	1, 944, 000	1, 707, 92
1, 463, 596	1, 152, 668	970, 050	801, <del>444</del>	2, 628, 970	2, 457, 650	1, 985, 955	1, 686, 672
8, 701, 634	3, 491, 256	1, 900, 812	1, 545, 120	1, 878, 600	1, 488, 000	1, 620, 000	577, 000
4, 577, 958	4, 184, 944	2, 499, 884	2, 468, 816	2, 703, 922	1, 885, 000	2, 218, 800	740, 940
47, 841, 758	238, 733, 404	137, 555, 604	139, 924, 740	202, 025, 999		218, 368, 000	205, 860, 960
63, 192, 482	265, 464, 680	147, 258, 942	155, 80 <b>9</b> , 820	205, 913, 150	223, 067, 400	192, 774, 875	170, 112, 228
3, 844, 692	8, 119, 160	<b>2, 756, 280</b>	1,942,070	3, 343, 956	2, 713, 100	4, 087. 265	5, 178, 848
175, 313	202, 607	172, 653	233, 581	218, 894	196, 956	199, 998	168, 226
41, 484, 946	<b>52</b> , 118, 160	<b>37</b> , 176, 330	46, 117, 214	43, 089, 788	<b>36, 910, 025</b>	87, 871, 870	29, 990, 580
23, 654 <b>3, 043,</b> 898	23, 071	27, 550	83, 414	27, 114	26, 766	80, 564 8, 918, 375	34, 398
424, 908	3, 300, 924 213, 024	<b>3</b> , 514, 926 520, 632	4, 566, 322 142, 884	3, 555, 174 297, 432	8, 631, 300	0, 910, 010	3, 702, 156
60, 922	28, 424	63, 555	22, 372	67, 842			••••••••
1, 363, 968	2, 261, 340	2, 887, 740	3, 264, 588	2, 847, 600	2, 952, 000	8, 712, 000	4, 428, 000
825, 016	1, 863, 268	2, 182, 947	5, 496, 274	2,728,726	2, 096, 900	2, 441, 825	1, 174, 692
<b>54</b> , 616	66, 384	68, 896	85, 825	67, 618	67, 410	51, 318	55, 008
11, 540, 318	18, 522, 344	11, 729, 577	11, 481, 642	11, 175, 732	11, 486, 150	8, 870, 040	8, 220, 300
11, 442, 780	7, 985, 445	6, 500, 300	10, 717, 704	7, 764, 836	11, 016, 000	5, 076, 000	4, 032, 000
1, 299, 180	653, 004	1, 010, 859	853, 452	1, 608, 152	1, 539, 000	802, 380	302, 730
15, 648	32, 970	22, 331	23, 577	39, 295	45, 000	40, 000	83, 500
844, 100	1,740,596	1, 054, 344	1, 099, 518	1, 796, 334	2, 345, 850	2, 200, 740	1, 745, 18
7, 475, 768 2, 075, 018	8, 935, 236 2, 660, 636	13, 755, 528	18, 384, 188	15, 209, 172	15, 588, 000 3, 198, 150	11, 808, 000	11, 772, 000 2, 427, 613
48, 312	53, 395	2, 922, 801 44, 732	2, 895, 120 42, 623	2, 718, 856 58, 642	40, 518	80, 060	13, 32
26, 365, 250	30, 724, 848	24, 938, 313	21, 238, 266	24, 574, 326	19, 383, 650	9, 653, 400	5, 531, 928
16, 491	12, 344	13, 771	10,000	10,993	8, 262	6, 174	5, 67
6, 470, 210	5, 808, 220	5, 020, 845	3, 916, 018	3, 763, 802	2, 986, 750	2, 258, 790	1, 709, 56
5, 966	12, 263	150, 595	3, 264	8, 670	8, 378	8, 526	3, 49
497, 582	<b>763</b> , 708	5, 571, 432	537, 586	2, 079, 280	664, 950	785, 680	1, 859, 76
`7,700,400	5, 198, 400		49, 392	15, 012			45, 648, 00
743, 542	401, 010		3, 190	1, 816			8, 219, 43
1, 935, 136	555, 648	4, 689, 936	1, 779, 984	8, 406, 500	288, 000	1, 224, 000	101, 124, 00
237, 376	70, 761	382, 668	170, 422	384, 272	48, 550	149, 705	8, 842, 80
11, 144	6,609	7, 628	5, 126	6, 845	4, 158	3, 672	3, 33
1, 456, 698	1, 460, 844	1, 551, 411	963, 970	1, 487, 072	915, 850	786, 255	555, 22
22, 353, 236	18, 879, 568	21, 674, 262	19, 699, 830	23, 058, 952	24, 661, 650	22, 673, 685	14, 849, 96
39, 381, 804 8, 779, 374	84, 324, 848 8, 180, 876	51, 892, 416 9, 137, 871	36, 580, 832 7, 362, 562	43, 528, 424 8, 168, 534	66, 960, 000	60, 264, 000	51, 588, 00 <b>7, 633, 9</b> 0
437, 864, 030	453, 597, 672	318, 688, 185	816, 789, 486	388, 695, 784			<b>316, 248, 4</b> 5

SPAIN.

### Value of imports from the principal

Countries.	1873.	1874.	1875.	1876.	1877.
Russia	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	367, 086	916, 578	1, 290, 012	946, 858	641, 918
Sweden and Norway	2, 926, 266	8, 011, 958	3, 289, 106	3, 083, 168	2, 985, 266
	1, 793, 742	2, 030, 553	8, 028, 170	3, 410, 117	4, 582, 785
GermanyUnited Kingdom	870, 607	1, 140, 437	673; 184	1, 411, 795	2, 764, 532
	41, 709, 037	84, 749, 071	87, 573, 819	27, 695, 500	32, 452, 950
France	19, 163, 356	28, 362, 315	28, 929, 349	81, 581, 362	27, 381, 489
	3, 817, 540	- 1, 240, 797	871, 974	853, 832	999, 161
ItalyTurkey in Europe	1, <b>720</b> , 402	2, 266, 592	1, 770, 003	3, 145, 180	2, 459, 013
	1, 524, 121	1, 328, 419	2, 304, 227	383, 491	18, 914
AlgeriaGibraltar	558, 261	968, 281	1, 325, 717	1, <b>982</b> , <b>689</b>	1, 50 <b>6</b> , 172
	528, 241	1, 509, 646	1, 803, 199	1, <b>485</b> , 135	991, 248
United StatesBrazil	9, 376, 182	13, 472, 944	11, 722, 048	11, 525, 188	11, 807, 740
	964, 421	1, 612, 515	1, 031, 585	1, 174, 984	871, 395
Argentine Republic	2, 454, 381	1, 580, 863	2, 022, 061	1, 579, 898	<b>6</b> 95, 186
	1, 494, 388	1, 439, 200	814, 207	2, 317, 737	1, 531, 455
Cuba	7, 636, 045	9, 818, 286	5, 377, 945	7, 332, 842	5, 141, 134
	866, 956	785, 317	851, 323	1, 128, 085	670, 675
Philippine Islands	1, 705, 541	1, 394, 039	1, 844, 887	1, 850, 677	2, 156, 003
	8, 211, 815	2, 791, 156	3, 544, 445	3, 966, 298	4, 246, 058
TOTAL IMPORTS	102, 688, 388	110, 418, 967	110, 067, 321	106, 854, 836	103, 903, 094

## Value of exports to principal coun-

Countries.	1873.	1874.	1875.	1876.	i877.
Rassia	Dollars.	Dollars.	Dollare.	Dollars.	Dollars.
	1, 308, 566	1, 810, 919	424, 793	493, 115	448, 918
Sweden and NorwayBelgium	870, 816	501, 414	880, 017	697, 852	099, 432
	1, 694, 540	1, 439, 780	1, 028, 6 <b>9</b> 0	1, 703, 032	1, 818, <b>63</b> 1
Germany	2, 044, 642	1, 687, 013	1, 098, 170	1, 515, 629	1, 186, 371
United Kingdom	44, 449, 637	31, 833, 420	30, 189, 060	34, 888, 161	40, 482, 908
France	. 23, 812, 919	20, 164, 833	14, 204, 028	17, 546, 981	17, 492, 169
	8, 666, 472	6, 130, 825	7, 739, 879	8, 827, 769	6, 875, 046
ItalyAlgeria	1, 301, 592	529, 013	783, 207	868, <b>693</b>	712, 3 <b>63</b>
	1, 352, 544	1, 140, 437	1, 186, 757	1, 569, 862	1, 225, 550
Gibraltar	868, 500	894, 685	298, 957	240, 285	280, 429
	<b>4, 339,</b> 026	<b>3, 929, 7</b> 28	<b>2, 997,</b> 290	2, 324, 878	8, 035, 504
Brazil	574, 175	565, 297	657, 165	174, 472	350, 366
	<b>2</b> , 979, 534	8, 166, 937	4, 035, 437	1, 968, 179	2, 707, 983
Cuba Porto Rico	13, 052, 783	11, 688, 659	16, 560, 751	13, 537, 985	15, 774, 083
	1, 102, 030	958, 824	1, 023, 286	961, 719	1, 440, 359
Uruguay Philippine Islands	1, 178, 651	1, 596, 882	1, <b>742</b> , 983	1, 196, 021	1, <b>879, 950</b>
	296, 448	318, 643	616, 828	474, 201	800, 178
All other	8, 622, 391	2, 170, 436	2, 332, 695	2, 470, 435	2, 824, 478
TOTAL EXPORTS	118, 515, 266	90, 027, 745	87, 249, 993	85, 949, 269	99, 578, 718

SPAIN.

countries, bullion and specie included.

1878.	1870.	1880.	188L	1882.	1883.	1884.	1885.
Dollars. 3, 224, 644	Dollars. 2, 318, 284	Dollars. 915, 592	Dollars. 1, 176, 528	Dollars. 4, 144, 552	Dollars. 4, 858, 389	Dollars. 3, 462, 999	Dollars.
3, 076, 034	8, 241, 242	3, 642, 682	4, 129, 814	4, 715, 955	4, 978, <b>6</b> 28	4, 850, 933	
4, 684, 882	4, 324, 358	8, 683, 997	5, 256, 478	6, 236, 481	7, 387, 461	7, 545, 528	
2, 472, 909	5, 458, 619	8, 221, 993	9, 909, 392	15, 969, 206	17, 112, 345	17, 115, 047	
27, 228, 826	27, 460, 777	26, 066, 001	26, 101, 766	82, 974, 243	36, 003, 185	31, 629, 419	
33, 423, 354	32, 738, 500	52, 196, 464	89, 940, 578	42, 629, 454	45, 344, 885	37, 033, 612	
1, 166, 106	1, 263, 185	2, 348, 617	1, 917, 841	1, 083, 809	1, 142, 174	1, 179, 809	
1, 670, 415	2, 799, 079	2, 300, 946	1, 928, 070	3, 551, 893	4, 411, 787	8, 075, 648	
385, 228	295, 869	170, 612	310, 730	2, 696, 789	8, 564, 324	1, 670, 994	
813, 495	1, <b>59</b> 0, 513	943, 963	1, 249, 675	3, 421, 697	1, 970, 916	994, 928	
966, 544	520, 135	448, 918	660, 2 <b>5</b> 3	554, 489	340, 239	172, <b>54</b> 2	
12, 460, 852	18, 719, 842	18, 266, 871	15, 941, 993	17, 667, 220	19, 432, 784	17, 401, 652	
914, 241	629, 759	391, 404	' 713, 328	308, 221	476, 131	52, 689	
<b>676, 65</b> 8	898, 608	943, 884	1, 225, 357	1, 274, 186	1, 482, 240	1, 612, 129	
675, 306	297, 413	610, 144	73, 340	1, 190, 238	312, 660	661, 218	
4, 435, 719 763, 315	<b>6, 463,</b> 570 <b>657,</b> 172	5, <b>6</b> 21, 248 512, 801	4, 878, 268 1, 026, 081	4, 491, 496 1, 034, 094	5, 214, 860 1, 960, 494	3, 816, 846 1, 501, 926	
3, 08b, 946	2, 541, 038	2, 817, 028	3, 753, 322	3, 128, 530	3, 937, 793	5, 170, <b>663</b>	
2, 323, 038	4, 516, 722	7, 363, 213	5, 367, 063	10, 550, 968	12, 498, 474	11, 514, 210	
104, 448, 512	116, 734, 771	137, 424, 878	125, 559, 817	157, 622, 521	172, 429, 288	150, 471, 292	

### ries, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 955, 929	Dollars. 817,741	Dollars. 732, 049	Dollars. 1, 099, 135	<b>Dollars.</b> 572, 438	Dollars. 538, 856	Dollars. 301, 466	Dollars.
611, 617	382, 140	596, 756	1, 087, 362	710, 240	703, 894	838, 953	
1, 373, 406	1, 030, 620	1, 577, 389	1, 280, 240	1, 338, 648	1, 279, 783	1, 267, <b>6</b> 24	
1, <b>299</b> , 083	1, 126, 155	1, 387, 670	1, 682, 574	1, 869, 721	1, 949, 107	1, 464, 098	
<b>33</b> , 715, 749	83, 606, 125	40, 679, 882	38, 582, 437	45, 891, 863	89, 281, 097	82, 425, 158	
23, 170, 422	81, 318, 478	44, 707, 351	<b>49</b> , 2 <b>69</b> , 619	59, 780, 399	58, 530, 338	51, 124, 785	
5, 402, 649	6, 024, 688	5, 123, 486	<b>4</b> , 711, 709	8, 744, 779	4, 623, 122	4, 755, 906	
584, 983	1, 394, 811	939, 331	937, 594	914, 820	587, 106	775, 088	
1, 657, 640	957, 859	1, 199, 888	1, 149, 315	402, 019	1, 228, 024	1, 012, 671	
379, 245	280, 249	318, 818	311, 116	355, 699	325, 784	322, 889	
2, 8 <b>3</b> 5, 3 <b>6</b> 8	2, 765, 461	4, 180, 573	4, 094, 495	5, 396, 666	4, 023, 857	3, 429, 610	
<b>371, 718 2, 583, 305</b>	281, 008 8, 052, 874	828, 661 2, 940, 741	226, 968 3, 363, 411	206, 124 3, 039, 557	193, 886 8, 862, 832	166, 752 3, 735, 708	••••••
12, 141, 244	13, 180, 782	13, 562, 110	12, 230, 603	13, 068, 609	11, 416, 836	10, 186, 154	
1, 187, 143	1, 862, 001	1, 296, 881	1, 647, 641	2, 205, 218	2, 428, 133	2, 317, 351	
1, <b>262</b> , 027	1, 218, 602	1, 504, 242	2, 475, 804	2, 051, 976	2, 408, 254	2, 224, 869	
528, 048	554, 875	982, 949	799, 985	1, 899, 120	1, 352, 544	843, 798	
3, 156, 888 92, 616, 454	2, 835, 735 102, 185, 214	3, 896, 047 125, 443, 824	4, 522, 569	5, 269, 672 147, 717, 568	4, 364, 871 138, 857, 324	2, 316, 228 119, 504, 056	

SPAIN—Continued.

## Quantities and value of princi-

Articles.	1873.	1874.	1875.	1876.	1877.
Animals		338, 186 4, 466, 850	760, 227 2, 182, 625	718, 153 <b>3, 326,</b> 534	688, 624 5, 255, 692
Brandy and spiritsdollars Chemical productsdollars	1, 945, 247	2, 142, 300	1, 003, 214	1, 557, 510	2, 757, 584
	1, 865, 345	1, 923, 245	1, 709, 208	2, 088, 839	1, 872, 100
Coal and coke	441, 931	422, 114	487, 977	675, 708	770, 804
	3, 512, 986	2, 970, 077	3, 196, 273	4, 043, 929	8, 694, 985
Cocoa	15, 360, 400	14, <b>625</b> , <b>600</b>	9, 398, 400	12, 544, 400	14, 058, 000
	1, 636, 061	1, 558, 282	998, 196	1, 954, 704	2, 142, 493
Codfish	76, 522, 600 8, 356, 463	86, 570, 000 3, 797, 468	76, 804, 200 3, 868, 815	<b>69, 663, 000 3, 055, 576</b>	72, 465, 800 3, 051, 523
Cotton	59, 686, 200	83, 294, 200	74, 864, 400	86, 191, 600	85, 718, 600
	12, 846, 017	17, 158, 086	15, 830, 762	15, 122, 515	11, 798, 669
	973, 685	969, 825	1, 830, 849	1, 994, 848	1, 911, 472
Hides and skins	19 144, 400	18, 416, 200	19, 628, 400	17, 855, 800	14, 168, 000
	4, 188, 486	4, 128, 463	4, 512, 583	8, 860, 579	2, 674, 208
	2, 095, 787	2, 760, 479	2, 142, 493	2, 640, 047	2, 205, 604
Linen and hemp yarn { pounds dollurs	10, 703, 000	13, 609, 200	12, 689, 600	12, 713, 800	12, 909, 600
	4, 294, 027	5, 441, 046	5, 087, 673	5, 096, 937	5, 175, 874
Linen and hemp manufact- { pounds dollars	796, 400	803, 000	932, 600	1, 324, 400	1, 188, 000
	472, 464	486, 939	607, 564	854, 990	734, 365
Machinery { tons } dollars Materials for railways dollars	1, 658, 063 2, 071, 876	1, 319, 541 2, 730, 371	11, 822 1, 876, 153 2, 823, 590	14, 909 2, 316, 579 3, 811, 171	10, 586 2, 887, 473 4, 430, 122
Oils, mineral	67, 953, 600	82, 772, 800	61, 415, 200	78, 293, 000	102, 966, 600
	2, 556, 285	8, 101, 124	2, 144, 087	2, 541, 617	8, 477, 860
Paper	8, 159, 200	6, 875, 000	11, 970, 200	10, 978, 600	10, 254, 200
	318, 643	698, 274	1, 153, 561	1, 093, 152	1, 024, 830
	4, 274, 564	2, 177, 426	2, 542, 003	787, 826	538, 277
Silk	268, 954	317, 706	281, 283	333, 713	290, 873
	1, 124, 804	1, 828, 075	1, 182, 318	1, 242, 148	1, 268, 975
Silk manufactures dollars	24, 800	78, 713	99, 607	149; 074	142, 513
	524, 574	562, 209	732, 628	1, 074, 817	1, 053, 780
Sugar { pounds } dollars	90, 602, 600 6, 093, 203	77, 431, 200 5, 166, 224	63, 817, 600 4, 296, 566	91, 515, 600 6, 291, 221	68, 181, 600 4, 522, 376
Timber and builing materialsdollars Tobaccodollars	3, 906, 899	4, 520, 446	3, 879, 686	4, 237, 894	4, 056, 281
	3, 946, 464	5, 396, 280	5, 027, 843	4, 568, 503	5, 323, 712
Wheat		575, 768 757, 525	820, <b>6</b> 00 1, 079, 835	144, 886 205, 931	837, 442 479, 605
Wool manufactures	1, 280, 400	2, 189, 000	1, 746, 800	2, 998, 600	3, 346, 200
	1, 505, 014	1, 967, 828	1, 919, 961	3, 655, 034	3, 660, 245
All other articlesdollars	17, 431, 686	24, 89, 5322	23, 561, 232	29, 722, 193	22, 914, 697
TOTAL IMPORTSdollars	82, 355, 416	98, 190, 101	92, 267, 124	104, 536, 713	94, 845, 734

SPAIN—Continued.

pal articles imported—merchandise only.

1878.	1879.	1880.	1 <b>8</b> 81.	1882.	1883.	1884.	1885.
783, 598	1, 262, 799	1, 394, 282	2, 096, 945 14, 613, 171	1, 889, 600	1, 621, 007	1, 657, 870	8, 188, 72 95, 046, 08
3, 804, 674	9, 002, 042	14, 722, 511		15, 221, 2 <b>9</b> 0	16, 860, 650	17, 39ਖ, 236	<b>25, 046, 9</b> 8
1, 987, 821	4, 785, 075	8, 175, 866	8, 456, 102	8, 757, 375	9, 688, 600	9, 479, 5 <b>69</b>	10, 666, 53
1, 919, 885	2, 066, 572	2, 403, 236	2, 678, 647	2, 849, 259	2, 977, 025	2, 925, <b>6</b> 87	2, 988, 42
774, 018	7 <b>9</b> 5, 812	910, 931	1, 014, 568	1, 143, 560	1, 306, 854	1, 384, 944	1, 449, 00
3, 662, 175	8, 720, <b>6</b> 24	8, 747, 480	8, 984, 485	4, 491, 111	5, 128, 189	5, 826, 284	4, 830, 40
11, 712, 800	13, 061, 400	18, <b>636</b> , 200	12, 802, 400	15, 187, 600	13, 214, 400	17, 318, 400	15, 878, 20
1, <b>996, 97</b> 1	2, 189, 134	2, <b>953</b> , 672	1, 918, 209	2, 431, 993	2, 182, 830	2, 826, 078	2, 828, <b>6</b> 0
77, 712, 800	85, 054, 200	97, 537, 000	94, 822, 200	94, 063, 200	93, 262, 400	106, 612, 000	1 <b>66</b> , 692, 95
3, 272, 815	3, 277, 912	3, 422, 662	8, 660, 052	8, 980, 239	2, 829, 313	5, 979, 833	5, 746, 57
79, 092, 200	80, 841, 200	98, 511, 600	99, 187, 000	102, 047, 000	117, 009, 200	115, 770, 600	107, 615, 03
11, 448, 567	12, 765, 599	15, 555, 800	14, 791, 713	15, 218, 030	17, 448, 551	16, 014, 754	12, 715, 80
1, <b>967</b> , 680	1, 874, 363	1, 804, 497	2, 005, 270	1, 972, 653	2, 102, 242	2, 285, 712	2, 184, 70
16, 863, 000	16, 904, 800	13, 503, 600	18, 231, 400	16, 850, 400	17, 188, 600	15, 015, 000	<b>22,</b> 118, <b>3</b> 5
3, 037, 820	3, 075, 648	2, 721, 529	3, 418, 802	8, 278, 298	8, 472, 456	8, 302, 616	1, 694, 14
2, 298, 051	2, 790, 008	4, 048, 279	8, 979, 660	4, 453, 658	4, 784, 097	4, 533, 184	<b>2, 994,</b> 78
11, 028, 600	8, 283, 000	8, 949, <b>609</b>	9, 836, 200	10, 331, 200	10, 208, 000	9, 169, 600	7, 325, 01
4, 256, 808	3, 276, 754	<b>3</b> , 587, 870	3, 939, 709	4, 078, 076	4, 047, 789	8, 619, 908	2, 564, 19
1, 348, 600	1, 293, 600	1, 397, 000	1, <b>6</b> 23, 600	1, 410, 200	1, 403, 600	1, 16d, 000	1, 318, 56
730, 505	764, 087	820, 443	825, 654	846, 498	871, 588	772, 886	827, 00
11, 371	14, 944	22, 887	24, 684	28, 064	24, 308	20, 488	19, 5
2, 525, 019	8, 321, 725	5, 082, 655	5, 476, 954	6, 268, 400	5, 444, 530	5, 846, 856	4, 223, 90
4, 879, 619	8, 600, 608	<b>4, 681, 408</b>	4, 450, 580	4, 405, 225	6, 722, 190	4, 970, 186	2, 913, 5;
75, 603, 000	94, 364, 600	109, 725, 000	152, 836, 800	129, 827, 600	137, 011, <b>6</b> 00	142, 897, 260	282, 748, 19
2, 455, 539	2, 210, 622	2, 066, 644	2, 449, 556	1, 910, 907	2, 134, 580	2, 243, 339	2, 982, 83
8, 586, 600	9, 924, 200	9, 196, 000	9, 718, 000	11, 382, 800	14, 176, 800	14, 854, 400	13, 331, 43
927, 365	1, 151, 017	1, 106, 469	1, 243, 499	1, 474, 906	1, 793, 935	1, 566, 002	1, 187, 7;
141, 083		945, 507	669, 131	2, 834, 784	8, 533, 251	2, 050, 625	1, 646, 6
-	134, 714	-					
820, <b>6</b> 80	280, 722	347, 842	364, 097	408, 564	424, 588	396, 000	357, 79
<b>1, 248,</b> 517	1, 078, 098	1, 332, 858	1, 393, 267	1, 621, 393	1, 677, 556	1, 516, 401	1, 126, 13
199, 496	168, 570	178, 701	227, 068	477, 074	230, 881	224, 400	219, 9
1, 415, 269	1, 165, 913	1, 266, 080	1, 638, 377	2, 411, 342	1, 807, 445	1, 800, 111	1, 810, 7
<b>65</b> , <b>496</b> , <b>200</b>	73, 259, 000	<b>62, 649, 400</b>	74, 809, 035	77, 285, 250	98, 177, 625	119, 056, 770	117, 078, 81
<b>4</b> , <b>437</b> , 070	4, 832, 527	<b>4,</b> 115, 146	4, 991, 752	4, 931, 343	5, 999, 535	7, 348, 089	5, 878, 51
4, 619, 455	4, 258, 159	5, 411, 913	6, 100, 730	6, 612, 373	7, 850, 212	7, 071, 520	6, 188, 73
5, 025, 834	8, 773, 150	4, 236, 736	4, 615, 402	5, 048, 494	6, 645, 762	4, 136, 569	5, 5 <b>9</b> 5, 4
2, 207, 080	4, 419, 506	1, 096, 733	732, 490	10, 109, 880	8, 725, 237	3, 606, 570	4, 119, 2
3, 222, 822	6, 978, 880	1, 616, 375	1, 041, 042	14, 367, 885	12, 405, 075	3, 998, 906	4, 326, 6
4, 082, 600	3, 982, 000	3, 999, 600	4, 578, 200	4, 987, 640	4, 611, 200	5, 178, 800	5, 192, 79
5, 121, 448	4, 402, 716	4, 477, 021	5, 105, 622	4, 920, 383	5, 142, 090	5, 955, 594	5, 584, 20
23, 614, 555	81, 425, 790	33, 208, 652	32, 779, 120	40, 065, 505	45, 707, 875	32, 932, 567	42, 764, 20
96, 944, 286	110, 177, 494	120, 183, 030	123, 705, 280	149, 719, 750	162, 932, 723	141, 753, 096	142, 854, 4

73—No. 85——6

SPAIN—Continued.

### Quantities and value of

Articles.	1873.	1874.	1875.	1876.	1877.
Animals	41, 870	41, 513	62, 483	87, 283	138, 942
	1, 742, 597	1, 231, 726	1, 712, 296	2, 081, 505	2, 997, 869
	2, 165, 653	2, 155, 424	1, 618, 691	1, 789, 496	1, 627, 955
Brandy, and spirits	3, 421, 101	554, 157	1, 076, 616	1, 591, 467	570, 755
	1, 376, 862	213, 844	436, 952	649, 638	230, 325
	3, 068, 314	2, 200, 972	1, 910, 814	6, 209, 657	1, 705, 348
Esparto grass	54, 446	52, 575	49, 751	42, 312	38, 592
	1, 826, 166	2, 033, 834	1, 927, 877	1, 640, 500	1, 496, 522
Almonds { pounds doliars	8, 881, 400	4, 963, 200	7, 614, 200	8, 659, 200	9, 444, 600
	779, 141	520, 907	884, 133	582, 281	831, 251
Oranges	508, 369, 000	589, 809, 000	440, 846, 000	627, 010, 000	677, 220, 000
	1, 566, 423	1, 821, 341	1, 859, 878	1, 936, 176	2, 091, 348
Raisins	74, 783, 400	85, 316, 000	71, 306, 400	93, 475, 800	83, 072, 000
	4, 592, 242	5, 240, 336	4, 378, 977	5, 741, 557	5, 100. 797
Nuts { pounds dollars	16, 368, 000	7, 970, 600	13, 890, 800	12, 526, 800	15, 741, 444
	861, 562	419, 582	731, 084	644, 234	828, 326
Hides and skins	2, 327, 600	1, 911, 800	2, 860, 000	2, 886, 400	3, 348, 400
	1, 442, 868	1, 246, 587	1, 676, 977	1, 172, 475	1, 300, 820
Copper regulus { tons { dollars	4, 884	4, 893	5, 8 <b>26</b>	7, 524	12, 720
	<b>644</b> , 041	51, 531	76, 621	1, 293, 679	2, 187, 2 <b>6</b> 9
Lead	73, 079 7, 325, 701	<b>96</b> , 469 9, 099, 757	101, 180 9, 594, 223	98, 664 9, 194, 713	122, 408 11, 576, 333
Mineral ores:  Copper	260, 465	294, 264	362, 899	462, 075	527, 599
	3, 952, 254	4, 479, 530	5, 514, 782	7, 022, 305	7, 933, 459
Iron	812, 661	711, 390	391, 776	692, 807	1, 288, 542
	1, 544, 772	1, 351, 388	647, 708	1, 316, 067	2, 428, 320
	2, 432, 572	2, 205, 260	1, 835, 044	2, 160, 056	2, 018, 780
Olive oil { pounds doliars	115, 183, 200	47, 031, 600	12, 276, 600	10, 982, 400	21, 304, 800
	7, 111, 850	3, 562, 973	750, 577	867, 149	1, 664, 623
Quicksilver	2, 789, 600	3, 027, 200	3, 775, 200	2, 125, 200	3, 907, 200
	2, 678, 261	3, 621, 259	4, 709, 972	1, 153, 175	2, 056, 414
Salt	241, 064	271, 024	296, 324	228, 419	324, 435
	1, 691, 838	713, 135	781, 264	601, 195	1, 156, 070
Silk { pounds dollars	194, 950	108, 741	136, 182	142, 645	86, 772
	865, 219	563, 946	476, 517	735, 323	513, 608
Wheat	7, 269, 717	2, 893, 360	622, 570	454, 190	1, 604, 872
	9, 566, 238	4, 107, 812	886, 642	642, 883	2, 276, 049
Wheat flour	1, 025, 216	539, 794	447, 620	575, 049	1, 003, 808
	6, 507, 574	3, 252, 822	2, 700, 070	3, 390, 817	6, 043, 048
Wine: Common and Catalonian { gallons	53, 994, 636	44, 319, 760	45, 851, 620	34, 107, 356	49, 398, 263
	11, 928, 721	11, 730, 926	15, 914, 973	8, 309, 580	10, 844, 284
Sherry and port		8, 697, 156 14, 316, 933	7, 878, 406 12, 148, 192	8, 198, 333 11, 999, 003	7, 802, 125 11, 418, 456
All other { gallons dollars	2, 527, 780	2, 825, 818	2, 656, 226	2, 437, 314	2, 562, 519
	1, 176, 721	1, 287, 503	1, 244, 078	2, 675, 366	2, 812, 783
Total wine	69, 733, 126	55, 842, 734	55, 886, 252	44, 743, 003	59, 762, 911
	34, 856, 349	27, 335, 362	29, 307, 243	22, 983, 949	25, 075, 52
Wool { pounds } dollars	5, 878, 400	4, 331, 800	9, 295, 000	4, 072, 200	8, 896, 800
	1, 176, 721	771, <b>03</b> 5	1, 571, 213	668, 938	1, 453, 097
All other articlesdollars	14, 130, 048	10, 582, 148	11, 750, 998	14, 650, 665	14, 512, 53
TOTAL EXPORTS dollars	113, 515, 266	88, 782, 509	87, 240, 053	85, 128, 633	99, 171, 69

SPAIN-Continued.

principal articles exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
198, 791	123, 804	173, 661	80, 287	95, 095	95, 699	72, 563	72, 419
1, 627, 888	1, 914, 560	1, 889, 663	1, 617, 945	2, 312, 526	4, 419, 700	4, 127, 498	4, 047, 982
1, 106, 662	1, 244, 464	1, 342, 508	1, 383, 231	2, 075, 329	1, 919, 192	1, 645, 904	2, 127, 053
724, <b>94</b> 5	819, 999	710, 015	797, 052	927, 081	1, 039, 960	849, 275	2, 933, 407
307, 642	351, 839	305, 905	341, 610	417, 266	506, 818	401, 247	
1, 721, 753	3, 771, 992	2, 127, 146	2, 861, 611	2, 522, 738	2, 670, 541	2, 736, 740	
34, 714	37, 360	42, 644	36, 435	45, 494	41, 583	38, 938	44, 510
1, 346, 561	1, 449, 430	1, 650, 922	1, 411, 602	1, 781, 004	1, 839, 219	1, 387, 863	1, 571, 599
5, 748, 600	9, 596, 400	9, <b>6</b> 62, 800	· 7, 510, 000	8, 989, 200	7, 350, 200	7, 225, 715	8, 165, 115
501, 414	888, 765	914, 434	767, 561	843, 410	870, 044	763, 315	891, 081
837, 515, 000 1, 845, 659	682, 888, 000 2, 046, 765	789, 862, 000 2, 283, <b>769</b>	599, 562, 000 1, 735, 649	5, 629, 231	4, 189, 644	4, 452, 510	2, 755, 268
91, 637, 409	71, 691, 400	63, 720, 800	79, 538, 800	91, 913, 800	78, 973, 400	66, 498, 390	73, 250, 100
5, 396, 473	4, 080, 599	3, 633, 611	4, 537, 237	5, 241, 108	4, 156, 834	3, 201, 201	3, 847, 648
13, 244, 000	15, 835, 600	13, 384, 800	11, 415, 800	11, 706, 200	11, 464, 200	13, 148, 415	10, 758, 195
705, 222	833, 567	703, 650	601, 002	616, 249	574, 947	518, 205	621, <b>460</b>
2, 173, 660	2, 800, 600	4, 481, 400	3, 951, 200	4, 171, 200	5, 082, 525	3, 755, 115	3, 005, 415
814, 653	725, 487	1, 149, 701	1, 027, 918	1, 032, 857	1, 021, 742	809, 249	787, 826
11, 429	22, 478	<b>2</b> 3, 999	26, 938	24, 963	26, 560	21, 222	29, 683
1, 904, 910	3, 746, 709	<b>4, 084,</b> 612	4, 549, 846	4, 204, 891	3, 748, 253	<b>2</b> , 612, 834	3, 394, 870
119, 594	115, 753	109, 249	121, 962	126, 904	149, 945	130, <b>599</b>	1 <b>29</b> , 87 <b>9</b>
10, 443, 244	<b>10, 209, 7</b> 00	<b>9,</b> 934, 675	9, 907, 076	9, 360, 114	10, 431, 457	6, 221, 162	7, 123, 051
415, 773	458, 273	523, 821	460, 129	580, 577	573, 589	679, 754	864, 402
<b>6</b> , 350, 853	<b>6</b> , 09 <b>3</b> , 580	<b>6,</b> 965, 563	6, 118, 486	7, 720, 193	3, 813, 680	<b>3,</b> 578, 027	8, 791, 871
1, 377, 996	1, 078, 859	2, 867, 355	3, 172, 414	4, 089, 684	4, 293, 503	4, 364, 868	4, 364, 466
2, 598, 359	3, 074, 104	8, 183, 393	9, 039, 541	11, 653, 147	7, 340, 176	6, 891, 644	6, 228, 882
1, 421, 445	1, 441, 324	1, 842, 378	1, 351, 000	1, 544, 772	1, 373, 002	861, 745	2, 205, 704
54, 441, 200	<b>33</b> , 138, <b>6</b> 00	30, 604, 200	54, 175, 000	30, 206, 000	58, 311, 000	47, 178, 180	92, 887, 830
4, 298, 303	<b>2</b> , 703, 737	2, 496, 841	4, 420, 086	2, 384, 901	4, 603, 822	3, 495, 230	7, 723, 860
3, 014, 000	4, 814, 800	2, 928, 200	3, 916, 000	2,347,400	1, 137, 400	2, 454, 163	2, 238, 075
J. 453, 676	2, 323, 334	1, 412, 567	1, 717, 700	1,070,764	507, 397	1, 150, 859	979, 282
300, 395	285, 309	351, 698	369, 704	251, 816	336, 0 <b>65</b>	853, 495	352, 877
1, 055, 780	1, 004, 955	1, 234, 235	1, 297, 346	863, 289	1, 003, 793	926, 593	578, 807
171, 624	133, 218	141, 860	149, 998	122, 146	124, 887	98, 548	285, 254
821, 022	631, 882	618, 951	452, 006	489, 255	492, 150	398, 931	
572, 280 848, 042	75, 820 119, 467	108, 870 154, 786	97, 130 148, 224	112, 090 182, 964	66, 150 104, 412		
468, 686	405, 199	419, 012	423, 953	319, 276	322, 216	289, 440	135, 984
2, 966, 410	<b>2,</b> 787, 885	<b>2</b> , 216, 720	2, 522, 425	2, 084, 014	1, 831, 763	1, 698, 364	1, 409, 579
67, 114, 620	91, 191, 820	153, 192, 593	174, 198, 171	192, 041, <b>6</b> 50	191, 261, 214	162, 601, 950	182, 167, 152
14, 733, 427	20, 018, 925	33, <b>629</b> , 864	38, 241, <b>0</b> 20	48, 846, 726	46, 185, 479	42, 773, 625	53, 196, 204
6, 540, 786	5, <b>663, 977</b>	7, 153, 955	7, 060, 324	7, 400, 432	7, 196, 155	3, 948, 612	4, 956, 001
9, 572, 607	9, 320, 532	10, 469, 864	10, 328, 974	10, 918, 203	10, 512, 517	7, 068, 046	5, 431, 985
3, 011, 498	4, 509, 070	3, 785, 808	4, 228, 968	4, 142, 194	3, 626, 826	2, 912, 896	2, 644, 684
8, 305, 511	4, 957, 292	4, 092, 951	4, 641, 650	4, 546, 501	2, 972, 393	2, 881, 620	1, 932, 509
76, 666, 854	101, 364, 873	164, 132, 416	183, 487, 463	203, 644, 276	202, 084, 195	109, 463, 458	189, 767, 837
27, 611, 545	34, 302, 749	48, 192, 679	53, 211, 644	64, 311, 430	59, 670, 389	52, 223, 291	60, 084, 714
7, 878, 200	8, 418, 000	13, 732, 400	8, 529, 400	5, 889, 400	8, 648, 200	8, 019, 505	5, 997, 600
1, 141, 981	1, 263, 764	2, 270, 066	1, 249, 096	1, 139, 279	1, 546, 123	1, 270, 133	892, 625
13, 885, 764	14, 740, 779	17, 077, 001	15, 059, 663	16, 866, 458	18, 880, 650	17, 683, 046	17, 384, 082
92, 175, 256	101, 351, 441	122, 985, 776	127, 229, 607	146, 346, 689	137, 458, 267	119, 045, 681	132, 826, 460

#### SWEDEN.

## Value of imports from the principal

Countries.	1873.	1874.	1875.	1876.	1877.
Russia and Finland	Dollars. 5, 065, 200 3, 631, 132	Dollars. 10, 192, 576 4, 031, 256	Dollars. 4, 883, 496 4, 026, 968	Dollars. 6, 083, 600 4, 487, 660	Dollars. 10, 334, 348 8, 993, 736
Denmark	9, 980, 320	14, 372, 240	13, 100, 376	13, 563, 212	18, 245, 632
	18, 239, 276	16, 806, 816	14, 794, 940	15, 507, 820	18, 049, 532
Holland	2, 660, 972	3, 038, 048	2, 459, 972	2, 930, 848	3, 242, 532
	1, 582, 540	1, 740, 392	2, 174, 016	2, 435, 232	2, 508, 212
United KingdomFrance	25, 464, 020	24, 350, 748	24, 639, 384	26, 844, 400	23, 391, 308
	2, 510, 356	2, 877, 784	2, 714, 572	3, 109, 068	2, 488, 916
SpainItaly	453, 992	500, 088	<b>330,</b> 712	807, <b>664</b>	3 <b>29</b> , 372
	318, 116	318, 116	813, 560	337, 948	<b>299</b> , 088
United States	2, 133, 280	2, 221, 720	645, 176	1, 547, 968	1, 852, 148
	706, 716	1, 774, 696	1, 758, 516	1, 162, 400	1, 581, 786
Total imports	72, 745, 920	82, 225, 080	71, 841, 688	77, 817, 820	81, 316, 530

### Value of exports to principal coun

Countries.	1873.	1874.	1875.	1876.	1877.
Russia and Finland	<b>Dollars.</b> 1, 905, 748 1, 989, 632	Dollars. 1, 690, 008 2, 000, 352	Dollars. 1, 511, 252 1, 900, 924	Dollars. 1, 253, 168 1, 843, 036	Dollars. 1, 191, 260 1, 792, 116
Denmark	5, 862, 232	8, 500, 156	6, 608, 344	6, 322, 120	5, 960, 392
	4, 890, 732	3, 831, 060	3, 467, 116	4, 395, 004	3, 646, 944
HollandBelgium	1, 408, 608	1, 403 784	1, 316, 952	3, 126, 220	2, 838, 656
	1, 973, 284	2, 285, 772	2, 567, 440	2, 577, 892	2, 166, 244
United KingdomFrance	32, 405, 220	33, 979, 184	29, 279, 000	32, 229, 124	31, 252, 284
	5, 142, 652	5, 308, 008	6, 615, 116	6, 789, 780	6, 684, 724
Spain	<b>419, 420</b> 158, 120	657, 136 7, 772	446, 488 96, 748	664, 640 86, 564	593, 888 63, 224
United States	1, 864, 208	556, 368	294, 264	217, 348	189, 940
	1, 450, 416	2, 313, 376	1, 252, 292	1, 124, 476	1, 464, 012
TOTAL EXPORTS	59, 470, 272	62, 532, 976	55, 355, 936	60, 629, 372	57, 864, 684

SWEDEN.

countries, bullion and specie included.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
7, 072, 520	6, 206, 344	7, 030, 176	6, 767, 000	6, 316, 492	8, 752, 612	9, 073, 944	
3, 091, 648	2, 976, 408	4, 495, 432	4, 558, 268	5, 041, 616	5, 584, 816	5, 911, 812	
11, 182, 300	12, 914, 920	14, 967, 264	13, 819, 688	13, 997, 104	15, 195, 064	14, 143, 432	
15, 209, 536	13, 840, 324	16, 552, 752	20, 579, 184	22, 502, 888	24, 301, 972	23, 862, 088	
2, 858, 220	2, 455, 148	2, 246, 912	2, 051, 540	2, 448, 716	2, 849, 452	1, 779, 718	
1, 799, 620	1, 725, 384	2, 332, 940	2, 290, 060	2, 417, 896	2, 511, 964	2, 355, 720	
17, 054, 716	15, 853, 004	20, 835, 124	19, 768, 484	20, 957, 868	23, 022, 272	23, 891, 664	
2, 147, 752	1, 465, 692	1, 733, 156	2, 085, 844	2, 042, 964	1, 881, 528	2, 288, 988	
386, 992	264, 248	874, 128	564, 140	594, 424	385, 384	482, 132	
275, 504	201, 536	277, 648	244, 952	400, 124	373, 800	308, 200	
2, 044, 572	1, 655, 436	3, 154, 360	2, 631, 760	1, 654, 364	2, 540, 908	1, 437, 284	
1, 066, 104	1, 128, 012	1, 787, 292	1, 839, 560	1, 977, 304	2, 091, 228	1, 803, 254	
64, 189, 484	60, 686, 456	75, 787, 184	77, 200, 480	80, 351, 760	89, 490, 560	87, 339, 136	**********

### tries, bullion and specie-included.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
1, 290, 688	1, 065, 264	<b>1, 903, 068</b>	1, 736, 104	2, 220, 380	2, 216, 360	2, 163, 564	]
1, 901, 460	1, 723, 776	2, 131, 940	2, 185, 808	2, 847, 500	2, 470, 156	2, 920, 396	· • • • • • • • • • • • • • • • • • • •
5, 621, 836	5, 514, 100	6, 413, 508	5, 888, 928	6, 596, 552	8, 625, 848	8, 917, 968	
3, 098, 616	3, 587, 448	4, 581, 728	5, 520, 532	4, 923, 964	4, 971, 936	4, 863, 128	
1, 360, 904	1, 536, 712	1, 645, 252	2, 786, 932	2, 064, 672	2, 506, 604	2, 372, 872	
2, 365, 100	2, 591, 292	8, 285, 144	2, 404, 128	<b>2, 851, 2</b> 52	2, 231, 368	2, 056, 900	· · · · · · · · · · · · · · · · · · ·
24, 947, 316	24, 564, 612	83, 178, 668	28, 798, 744	34, 158, 470	84, 457, 832	30, 030, 740	
6, 968, 536	7, 458, 172	7, 691, 832	7, 612, 272	8, 942, 088	8, 384, 916	7, 857, 760	
552, 616	413, 524	403, 072	853, 312	963, 460	1, 190, 992	861, 885	
57, 094	72, 628	39, 396	125, 424	143, 112	211, 720	176, 880	
126, 228	800, 428	768, 892	95, 140	431, 748	90, 852	465, 784	
1, 107, 366	1, 063, 996	1, 870, 284	1, 809, 204	1, 898, 512	1, 418, 524	1, 260, 139	
49, 397, 760	49, 891, 952	63, 412, 234	59, 816, 528	68, 041, 716	68, 777, 108	63, 948, 016	

#### SWEDEN—Continued.

## Quantities and value of principal

Articles.	1873.	1874.	1875.	18 <b>76</b> .	1877.
Coaldollars	4, 162, 308	8, 529, 560	4, 130, 952	4, 056, 716	3, 605, 672
Coffee	24, 833, 600 5, 479, 790	20, 064, 000 4, 024, 824	21, 824, 000 4, 690, 536	24, 877, 600 4, 990, 160	23, 790, 860 4, 430, 844
Cotton	18, 455, 400 3, 103, 244	21, 018, 800 3, 013, 124	13, 160, 400 1, 794, 260	22, 242, 000 2, 870, 816	19, 395, 200 2, 500, 976
Cotton yarn, unbleached { pounds dollars	8, 656, 400 1, 105, 768	5, 471, 400 1, 206, 268	4, 408, 800 923, 796	5, 046, 800 1, 291, 224	4, 327, 400 928, 352
Cotton manufactures dollars	2, 199, 208	2, 842, 140	2, 272, 908	1, 903, 872	2, 057, 168
Rye mealdollars Wheat flourdollars	1, 868, 764 1, 392, 528 1, 363, 048	5, 108, 080 2, 304, 264 1, 927, 188	2, 667, 136 1, 094, 244 1, 748, 968	1, 949, 432 1, 238, 428 1, 545, 556	4, 489, 536 2, 646, 232 2, 788, 700
Herringsdollarsdollars	1, 519, 560 3, 456, 664	1, 558, 956 4, 779, 244	2, 067, 620 4, 245, 656	2, 219, 844 3, 630, 596	2, 144, 000 2, 636, 584
Oilcake	8, 811, 000 132, <b>6</b> 60	<b>16, 9</b> 18, 000 <b>335, 536</b>	15, 847, 200 351, 884	21, 991, 200 472, 782	24, 439, 800 490, 172
Oil: Mineral	18, 427, 200	19, 764, 800	20, 099, 200	21, 927, 400	24, 439, 800
All other dollars	731, 908 519, 384	658, 476 613, 488	627, 924 679, 916	1, 122, 652 741, 288	800, 548 715, 828
Pork	22, 116, 600 2, 058, 240	21, 749, 200 2, 866, 976	19, 606, 400 2, 656, 148	25, 663, 000 3, 162, 400	30, 294, 000 2, 821, 504
Rice and sago	7, 143, 400 230, 212	8, 654, 800 328, 568	7, 464, 600 279, 256	11, 235, 400 358, 708	9, 515, 000 820, 260
Silk manufacturesdollars Skins:	407, 360 683, 668	527, 692 984, 900	396, 104 842, 860	335, 000 891, 904	456, 672 810, <b>9</b> 68
Dressed { pounds { dollars	0.500 407	2, 125, 200 995, 620	1, 928, 316	1, 394, 672	3, 295, 600 1, 419, 664
Undressed	<b>9, 064, 000 1, 818, 380</b>	6, 168, 800 1, 343, 216	5, 863, 000 1, 203, 636	4, 776, 200 958, 368	4, 162, 400 715, 828
Spirits:	•	' '		·	,
Arrack	371, 890 353, 760	473, 430 404, 680	278, 480 249, 776	382, 170 289, 172	310, 960 265, 588
Cognac	287, 490 <b>29</b> ∂, 512	327, 310 <b>347, 06</b> 0	364, 360 <b>90,</b> 31 <b>6</b>	430, 540 131, 052	385, 600 194, 300
Sugar:  pounds	23, 194, 600	21, 621, 600	25, 581, 600	36, 632, 600	83, 257, 400
dollars	1, 877, 524	1, 697, 780	1, 788, 632	2, 754, 772	2, 706, 532
Unrefined	<b>4</b> 2, 735, 600 <b>2</b> , <b>95</b> 3, <b>09</b> 2	38, 974, 900 2, <b>459</b> , 168	42, 840, 600 2, 714, 572	32, 311, 4(0 2, 221, 988	37, 4h6, 800 2, 900, 028
Molassesdollars	<b>338</b> , 752	485, 348	832, 052	289, 976	578, 612
Tallow	4, 280, 200 414, 060	4, 406, 600	2, 010, F00 195, 908	2, 814, 600 273, 092	2, 752, 200 276, 040
Tobacco, in leaf and stalk   pounds	7, 475, 000 895, 924	8, 025, 600 951, 936	6, 833, 200 1, 014, 648	7, 264, 400 1, 187, 240	7, 486, 600 1, 216, 720
Wine: In casksdollars In bottlesdollars	<b>699</b> , 480 562, 264	727, 084 663, 568	644, 272 395, 300	404, 412 297, 212	365, 820
Wool	8, 722, 400 1, 599, 692	3, 454, 000 1, 493, 564	3, 066, 800 1, 230, 656	4, 096, 400 1, 760, 492	354, 564 4, 067, 800 1, 842, 708
Woolen yarn	1, 100, 000	J, 276, 000	1, 139, 600	1, 335, 400	1, 337, 600
Woolen manufacturesdollars All other articlesdollars	1, 153, 204 4, 517, 944 21, 021, 664	833, 480 5, 523, 480 25, 316, 620	816, 596 4, 223, 680 22, 330, 564	1, 056, 954 4, 700, 452 25, 358, 168	838, 304 5, 329, 716 26, 601, 472
TOTAL IMPORTSdollars	69, 842, 676	79, 668 '628	69, 819, 092	75, 857, 400	80, 400, 172

SWEDEN—Continued.

and other articles imported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
2, 645, 428	2, 614, 08R	4, 090, 084	3, 475, 424	4, 262, 004	4, 352, 000	4, 361, 968	
2.1, 304, 600	22, 664, 400	24, 882, 000	27, 152, 460	34, 172, 600	31, 238, 400	81, 176, 675	
4, 007, 136	3, 767, 008	3, 850, 356	3, 109, 068	2, 683, 752	8, 196, 163	3, 561, 988	
3, 807, 200	15, 140, 400	21, 300, 400	22, 994, 400	22, 946, 000	27, 984, 000	21, 960, 766	
1, 891, 008	1, 938, 176	2, 605, 228	3, 081, 464	3, 270, 404	3, 409, 228	2, 802, 744	
2, 841, 200	• •		5, 159, 000		5, 302, 000	2, 275, 918	
512, 684	2, 849, 000 7천천, 724	4, 503, 400 1, 134, 176	1, 013, 308	4, 351, 600 866, 176	1, 313, 468	717, 108	
1, 386, 900	1, 371, 355	1, 739, 320	1, 937, 908	1, 902, 800	2, 268, 352	2, 370, 088	
4, 804, 168	3, 594, 416	3, 366, 348	4, 290, 792	4, 453, 088	5, 549, 744	4, 663, 776	
786, 848	Š31, 068	765, 140	533, 806	597, 640	857, 868	.754, 420	1
2, 485, 968	2, 081, 550	2, 595, 044	1, 407, 536	1, 762, 452	2, 269, 960	2, 308, 824	
1, 334, 640	1, 297, 824	2, 095, 760	1, 486, 060	1, 330, 620	1, 405, 928	1, 390, 384	
1, 528, 136	1, 052, 792	1, 403, 754	1, 807, 172	2, 123, 096	2, 516, 798	2, 651, 056	
5, 6 ; 1, 000	14, 674, 000	37, 727, 800	52, 2.4, 000	28, 551, 600	30, 428, 200	46, 957, 785	
<b>26</b> 8, 804	210, 380	540, 556	1, 018, 936	521, 798	556, 100	855, 9 <del>9</del> 2	
4, 673, 000	25, 440, 800	27, 313, 000	37, 160, 200	39, 305, 200	42, 000, 200	50, 751, 706	
701, 038	<b>63</b> 8, 108	652, 313	905, 304	929, 424	1, 014, 648	1, 251, 838	
<b>69</b> 3, 316	921, 920	930, 761	954, 080	758, 172	967, 212	1, 139, 000	
7, 409, 800	28, 094, 000	32, 771, 200	26, 400, 000	10, 828, 200	21, 895, 000	11, 495, 688	• • • • • • • • • • • • • • • • • • • •
1, 767, 192	1, 811, 412	3, 024, 112	2, 765, 760	1, 476, 948	2, 319, 540	1, 364, 924	
0, 086, 200	8, 610, 800		13, 653, 200	19, 228, 000	19, 890, 200	19, 916, 852	
721, 724	235, 604	504, 376	383, 240	456, 949	469, 268	583, 168	
490, 708	310, 724	407, 628	497, 140	525, 816	501, 964	380, 828	
793, 548	615, 864	765, 140	795, 960	836, 160	818, 740	997, 228	
3 625, 600	3, 678, 400	4, 061, 200	3, 931, 400	4, 972, 000	4, 862, 000	4, 418, 284	
1, 337, 320	1, 472, 392	1, 669, 908	1, 514, 468	1, 841, 428	1, 885, 112	1, 725, 988	
4, 809, 200	3, 394, 600	5, 106, 200	5, 504, 400	<b>5</b> , 988, <b>4</b> 00	5, 557, 200	4, 747, 323	
827, 048	583, 436	87 <b>7, 96</b> 8	1, 005, 804	1, 094, 244	1, 015, 452	865, 872	
276, 150	226, 560	161, 920	210, 210	215, 220	257, 680	242, 216	
235, 840	102, 960	157, 048	192, 424	218, 688	2J1, 836	286, 492	
427, 010	469, 740 525, 729	394, 830	432, 020	363, 180	239, 420 545, 112	337, 196	
422, 636	535, 732	587, 724	681, 524	565, 212	545, 112	53 <b>6, 268</b>	
8, 540, 600	27, 951, 000	29, 616, 400	24, 714, 800	24, 533, 200	30, 107, 200	16, 430, 734	
2, 159, 544	2, 129, 528	2, 037, 068	1, 716, 004	1, 785, 952	2, 096, 832	1, 638, 284	
1, 135, 600 2, 57ଖ, 1 <b>6</b> 0	<b>89</b> , 395, 400 2, 484, 360	41, 232, 400 2, 480, 340	47, 120, 200 2, 669, 548	54, 221, 200 3, 203, 672	59, 232, 800 3, 355, 628	55, 377, 501 2, 654, 736	
			,	, .		,	
515, 900	359, 368	507, 592	405, 484	527, 960	546, 988	509, 736	
8, 102, 000	3, 562, 400	<b>2,</b> 780, 800	<b>2, 745, 6</b> 00	2, 228, 600	3, 009, 600	3, 248, 753	
284, 348	336, 340	239, 056	234, 232	209, 040	282, 204	287, 832	
7, 321, 600	12, 185, 800	4, 295, 800	5, 882, 800	7, 187, 400	7, 755, 000	7, 013, 315	
1, 131, 764	2, 000, 621	612, 916	981, 052	1, 330, 883	1, 435, 944	2, 332, 136	
188, 940	170, 180	397, 444	481, 596	873, 412	317, 583	541, 628	
484, 008	171, 520	347, 060	372, 788	474, 092	373, 592	480, 256	
1, 885, 400 675, 360	2, 004, 200 717, 972	2, 831, 400 1, 014, 112	3, 564, 000 1, 302, 748	3, 447, 400 1, 260, 940	4, 050, 200 1, 480, 482	4, 656, 243 1, 698, 852	
	-	·	•				
1, 075, 800	1, 203, 400	1, 212, 200	1, 397, 000 660, 084	1, 762, 200 826, 512	2, ^19, 600	2, 213, 952	
695, 996	711, 540 9 459 841	860, 048 5 535 004	5, 652, 954	5, 434, 236	918, 704 6, 216, 528	981, 148	
3, 622, 220   0, 1 <b>45</b> , 360	8, 452, 644 17, 656, 925	5, 535, 004 24, 939, 640	28, 211, 358	80, 170, 561	33, 392, 842	6, 003, 200 83, 126, 998	
						<u> </u>	1
2, 123, 740	<i>57</i> , 155, 55 <b>6</b>	72, 733, 056	75, 644, 072	78, 594, 216	87, 911, 772	85, 824, 320	ı

#### SWEDEN—Continued.

# Quantity and value of principal

Articles.	1873.	1874.	1875.	1876.	1877.
Animals:	90.045	~~~~		0. 505	
Cattle { number. } dollars	26, 245 1, 971, 676	22, 865 1, 473, 782	20, 8 <b>63</b> 1, 305, 160	20, 525 855, 188	20, 528 1, 431, 656
Sheep { number. dollars		21, <b>6</b> 89 87, <b>6</b> 36	16, 708 76, 380	18, 521 118, <b>99</b> 2	19, 968 112, 560
Swine:		11, 116 163, 748	13, 126 <b>23</b> 0, 748	13, 285 234, 768	12, 762 102, 644
Brandy and spirits $\left\{ egin{array}{ll}  ext{gallons} &  ext{dollars} &  ext{dollars} &  ext{.} \end{array}  ight.$	-	**********	2, 366 1, 478	580 5 <del>9</del> 0	502 456
Butter	1, 590, 313	6, 668, 200 1, 719, 758 70, 484	7, 161, 000 1, 823, 936 73, 700	7, 787, 400 1, 995, 528 56, 280	8, 208, 200 2, 114, 520 109, 612
Wheatdollarsdollarsdollarsdollarsdollarsdollars	. 1, 204, 124	369, 036 1, 276, 752 9, 223, 488	523, 136 1, 189, 920 7, 554, 920	618, 276 1, 163, 120 9, 884, 912	226, 460 1, 022, 950 5, 987, 900
Wheat flour	5, 477, 400 284, 232	<b>4, 598, 000</b> 175, 272	6, 210, 600 204, 752	5, 865, 200 143, 380	2, 965, 400 213, 328
$egin{align*}  ext{Fig$	. 63, 667 2, 189, 560	46, 044 1, 053, 776	58, 617 1, 075, 484	24, 136 584, 508	<b>82</b> , 151 552, 884
Bar { tons } dollars		97, 378 6, 139, 844	117, 032 6, <b>9</b> 75, 772	107, 928 4, 932, 808	125, 19 4, 664, 004
Blooms { tons dollars		9, 688 891, 548	12, 581 568, 428	. 14, 848 510, 540	15, 444 441, 93
Bolt, hoop, &c	22, 599 1, 866, 888	20, <b>378</b> 1, 372, <b>428</b>	22, 903 1, 743, 340	27, 033 1, 471, 856	31, 799 1, 839, 464
Iron wares	4, 570 392, 352	2, 992 246, 220	2, 518 230, 480	2, 784 205, 020	2, 177 184, 116
Iron and steel wire		971 111, 488	944 108, 272	873 <b>42</b> , 880	24: 28, 146
Total iron	. 207, 809 12, 808, 792	177, 451 9, 314, 804	209, 595 10, 701, 776	177, 102 7, 267, 612	207, 009 7, 210, 540
Lucifer matchesdollarsdollars	955, 152	1, 157, 760	1, 892, 796 254, 028	1, 731, 816 268, 000	1, 582, 540 247, 090
Paper { pounds . } dollars	5, 592, 400 622, 296	6, 498, 800 684, 204	7, 489, 200 769, 964	10, 300, 400 1, 094, 512	, 8, 784, 600 952, 204
Wood-pulp { tons } dollars		6, 160 352, 956	5, <b>667</b> 324, 816	11, 509 873, 056	6, 763 887, 521
Steel		8, 198 1, 137, 124	6, 900 889, 760	5, 813 732, 980	7, 074 780, 410
Wood: Deals and planksdollars Beams and raftersdollars	20, 182, 160 8, 357, 772	21, 577, 484 8, 975, 244	18, 486, 372 2, 574, 676	21, 270, 892 2, 542, 616	24, 241, 130 2, 818, 200
Maste and sparsdollars Pitpropsdollars Stavesdollars All other	. 879, 309	735, 660 837, 500 247, 496 1, 136, 724	631, 944 496, 300 210, 916 889, 760	2, 434, 512 825, 708 240, 664 732, 980	2, 207, 510 736, 78 280, 82 780, 400
Total wooddollars	. 26, 015, 565	28, 510, 108	23, 289, 968	28, 047, 372	80, 564, 82
All other articlesdollars	4, 265, 219	4, 659, 036	4, 001, 618	5, 108, 710	7, 647, 486
TOTAL EXPORTSdollars	58, 645, 868	60, 305, 896	54, 608, 752	59, 695, 892	57, 671, 72

SWEDEN-Continued.

and other articles exported.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
31, 884	80, 473	84, 241	19, 096	26, 492	46, 192	89, 076	••••••
1, 940, 588	1, 004, 196	1, 185, 864	510, 856	1, 815, 844	2, 099, 244	1, 990, 704	
24, 381 114, 168	23, 194 128, 548	29, 591 178, 120	21, 844 197, 786	29, 104 175, 540	81, 825 188, 940		
20, 761	14, 875	21, 644	24, 841	26, 212	28, 084	50, 167	
155, 708	169, 876	818, 920	358, 816	421, 564	451, 580	<b>806, 412</b>	
28, 360	87, 480	1, 647, 780	1, 764, 750	831, 270	121, 060	82, 079	
16, 348	21, 440	911, 786	1, 040, 108	1 <b>60</b> , 582	95, 676	68, 072	
8, 408, 400	10, 219, 000	11, 576, 400	11, 285, 400	12, 810, 600	17, <b>958, 600</b>	21, 085, 246	
2, 168, 656	2, 842, 588	2, 819, 896	2, 636, 884	8, 120, 860	4, 375, 636	4, 612, 816	
249, 776	118, 632	167, 282	293, 192	1, 059, 136	777, 468	854, 028	
375, 200 1, 315, 344 8, 249, 040	489, 100 1, 541, 536 8, 723, 936	289, 440 1, 370, 552 8, 989, 524	200, 464 1, 011, 700 6, 144, 972	21, 172 1, 199, 568 6, 907, 700	59, 228 954, 864 7, 110, 308	678, 808 4, 741, 724	
6, 164, 400	5, 086, 400	3, 924, 800	1, 879, 400	9, 794, 400	15, 109, 600	15, 993, 396	• • • • • • • • • • • • • • • • • • • •
230, 480	185, 992	142, 308	47, 168	857, 780	480, 156	427, 728	
30, 793	88, 016	67, 743	60, 949	62, 404	57, 544	60, 004	
494, 192	523, 186	1, 067, 712	891, 904	1, 045, 468	981, 416	1, 021, 080	
124, 711	121, 358	144, 340	150, 299	169, 182	136, 580	188, 275	
4, 467, 292	4, 178, 296	6, 204, 736	5, <b>49</b> 1, 052	6, 182, 760	5, 356, 784	5, 041, 884	
10, 685	11, 539	9, 746	9, 689	8, 536	6, 551	8, <b>99</b> 1	
275, 504	296, 944	807, 128	<b>259, 69</b> 2	311, 952	174, 200	<b>249, 24</b> 0	
87, 070	45, 951	53, 584	57, 164	59, 500	67, 778	79, 083	
1, 434, 068	1, 804, 476	2, 440, <del>944</del>	2, 367, 512	<b>2, 464, 2</b> 60	2, 707, 800	8, 458, 004	
2, 104	1, 322	2, 197	2, 124	2, 555	2, 719	2, 942	
187, 332	129, 176	191, 888	249, 776	943, 092	1, 204, 928	621, 492	
508	630	1, 400	1, 738	3, 245	5, 837	2, 836	
58, 156	<b>72, 36</b> 0	1 <b>6</b> 0, 582	211, 720	<b>895, 30</b> 0	711, 004	844, 648	
205, 871	218, 816	279, 010	281, 963	305, 422	277, 009	292, 081	
6, 116, 544	6, <b>499</b> , 388	10, 372, 940	9, 471, 656	11, 842, 832	11, 135, <b>6</b> 32	10, 786, 848	
1, 335, 712	1, 864, 388	1, 837, 944	2, 003, 836	2, 079, 680	2, 242, 624	2, 326, 508	
276, 040	814, 096	679, 112	740, 216	692, 244	430, 408	646, 952	
12, 146, 200	15, 47  400	15, 606, 800	11, 891, 000	13, 266, 000	14, 319, 800	14, 629, 729	
1, 283, 988	1, 675, 268	1, 706, 892	1, <b>36</b> 1, 440	2, 205, 908	2, 283, 896	2, 836, 976	
5, <b>697</b>	10, 804	10, 427	9, 909	10, 17 <b>4</b>	11, 172	11, 759	• • • • • • • • •
<b>326, 424</b>	619, 348	597, 640	603, 268	61 <b>9,</b> 616	680, 452	814, 864	
<b>5,</b> 670	9, 402	8, 970	7, 887	10, 762	11, 976	10, 828	
<b>568, 69</b> 6	1, 077, 896	514, 024	2, 229, 852	603, 000	671, 072	1, 815, 881	
14, 999, 424	14, 538, 196	19, 585, 172	29, 078, 560	23, 526, 380	21, 286, 704	19, 604, 786	••••••
1, 873, 232	1, 153, 740	1, 844, 912	1, 713, 824	2, 016, 432	1, 930, 136	1, 600, 496	
884, 400 456, 136 225, 656 568, 690	915, 220 416, 472 205, 020 1, 077, 896	1, 159, 904 630, 872 281, 400 514, 024	2, 007, 588 784, 052 225, 756 2, 229, 852	1, 062, 888 600, 856 253, 796 603, 000	1, 640, 160 832, 140 851, 080 671, 072	1, 259, 882 721, 724 258, 014	
18, 507, 514	18, 806, 544	24, 016, 284	25, 989, 132	28, 068, 852	26, 711, 292	23, 444, 802	
7, 246, 052	4, 968, 244	7, 273, 528	5, 741, 100	8, 990, 596	7, 976, 252	9, 083, 529	
49, 191, 668	49, 576, 516	63, 866, 456	59, 493, 856	69, 864, 424	68, 704, 748	68, 884, 652	

#### THE UNITED KINGDOM.

### Value of the total imports from each

Countries.	1873.	1874.	1875.	1876.	1877.
Continent of Europe.  Russia	<i>Dollars.</i> 102, 980, 149 87, 615, 156			<i>Dollars.</i> 85, 412, 012 88, 746, 491	<b>Dollars.</b> 107, 612, 171 38, 198, 686
Norway	14, 322, 580 17, 355, 736			13, 033, 461 20, <b>49</b> 9, 159	12, 610, 062 19, 198, 113
Germany Holland	96, 842, 552 64, 502, 620			102, 619, 819 80, <b>6</b> 86, 468	
Belgium	63, 545, 404 210, 628, 677	73, 187, 484 226, 080, 255	72, 036, 086 <b>22</b> 7, 059, 691	67, 302, 704 <b>2</b> 20, 181, 590	62, 615, 142 222, 701, 355
Portugal, including the Azores Spain	22, 812, 300 53, 329, 654	22, 412, 546 41, 999, 337		18, 010, 499 <b>4</b> 2, 297, 210	19, 541, 511 52, 692, 591
Italy	18, <b>6</b> 19, 102 <b>4</b> , 225, 444			20, 179, 677 <b>4, 159,</b> 178	
Greece	8, 440, 085 4, 978, 263	7, 468, 872 2, 973, 081		8, <b>744, 97</b> 2 6, 017, 122	11, 926, 445 1, 201, 960
Bulgaria. Turkey in Europe	16, 803, 116	17, 395, 002	19, 072, 297	22, 305, 224	17, 898, 980
Total from foreign countries	737, 060, 838	756, 321, 237	766, 159, 840	750, 195, 586	817, 313, 984
British Possessions: Channel Islands Gibraltar	2, 677, 904 451, 518			8, 285, 773 242, 601	3, 51 <b>9, 520</b> 340, 385
Malta and Gozo	1, 486, 106	1, 385, 576	1, 135, 145	1, 038, 995	1, 892, 055
Total from British Possessions	4, 595, 528	4, 945, 890	5, 117, 027	4, 567, 369	5, 251, 960
TOTAL FROM RUBOPR	741, 656, 366	761, 267, 127	771, 276, 867	754, 762, 955	822, 565, 944
Continent of Africa.					
French Possessions: Algeria Rét nion	2, 132, 490 63, 666			2, 409, 821	2, 731, 193 82, 037
Portuguese Possessions (West Africa) Spanish Possessions (Canaries and Fer-				-	·
nando Po) Egypt	2, 360, 914 *68, 797, 737			1, 422, 663 55, 800, 182	
Tripoli and Tunis	731, 561 4, 423, 611			1, 902, 491 8, 049, 422	
nated)	8, 556, 069 336, 380	, ,		7, 765, 183 899, 157	
Madagaecar	9, 900	53, 732	237, 994	27, 036	9, 429
Total foreign	88, 132, 129	70, 017, 700	72, 032, 227	73, 252, 409	73, 851, 655
British Possessions: Gambia and Sierra Leone The Gold Coast	420, <b>6</b> 38 1, 880, 100			643, 114 2, 666, 434	
Cape Colony	17, 388, 166 2, 639, 481				
Mauritius	6, 191, 203	5, 074, 976	4, 006, 687	4, 552, 537	9, 190, 410
Total from British Possessions	28, 519, 588	29, 854, 388	28, 787, 789	28, 237, 227	83, 701, 660
TOTAL FROM AFRICA	116, 651, 717	99, 872, 088	100, 769, 966	101, 489, 636	107, 553, 315

## THE UNITED KINGDOM.

foreign country and British Possession.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<b>Dollars. 86</b> , 526, 721 <b>83</b> , 302, 134	<b>Dollars.</b> 77. 160, 203 31, 470, 303	<i>Dollars.</i> 77, 904, 318 40, 167, <b>6</b> 86	Dollars. 68, 298, 654 35, 730, 142	. Pollars. 102, 291, 929 42, 931, 393	Dollars. 101, 941, 185 42, 944, 136	<b>Dollars.</b> 79, 292, 897 86, 513, 501	<b>Dollars.</b> 86, 082, 264 89, 407, 310
11, 052, 153 22, 290, 884	9, 318, 831 <b>23, 720, 9</b> 37	13, °38, 854 25, 688, 828	13, 1 <b>92</b> , 546 22, 414, 272	14, 215, 573 25, 512, 410	14, 570, 630 30, 899, 292	14, 657, 998 25, 506, 465	13, 768, 866 23, 471, 371
114, 551, 263 104, 322, 772	104, 995, 877 106, 722, 606	118, 367, 836 125, 919, 577	114, 940, 385 111, 891, 707	125, <b>274, 9</b> 87 123, 058, 646	135, 631, 062 122, 061, 748	114, 796, 514 125, 761, 724	112, 115, 812 121, 546, 170
60, 198, 998 201, 101, 435	52, 127, 092 186, 911, 207	54, 693, 807 203, 975, 648	55, 930, 486 194, 323, 149	72, 572, 796 189, 979, 252		73, 610, 410 181, 943, 888	73, 240, 606 173, 549, 620
17, 207, 496 44, 300, 620	15, 444, 254 40, 818, 100	19, 01 <b>2</b> , 976 52, 001, 689	16, 919, 482 <b>48, 783, 6</b> 74	18, 541, 478 55, 832, 968		14, 786, 633 49, 367, 312	13, 491, 360 45, 947, <b>9</b> 56
15, 806, 951 8, 096, 065	15, 715, 267 8, 192, 0 <b>26</b>	16, 451, 630 6, 954, 863	15, 915, 922 6, 755, 405	16, 919, 239 9, 790, 018		15, 896, 203 8, 958, 137	14, 261, 176 10, 485, 93
8, 568, 451 4, 716, 897	9, 045, 413 6, 672, 790		10, 510, 071 13, 40 <b>7,</b> 875	8, 989, 041 24, 173, 159	9, 261, 386 17, 089, 908	9, 794, 246 15, 135, 740	<b>9, 296, 2</b> 08 13 <b>, 40</b> 3, 396
10, 719, 206	4, 720, 581	7, 601, 793	<b>6, 538, 82</b> 0	10, 479, 885	9, 230, 413	9, 573, <del>94</del> 7	1, <b>469, 66</b> 4 7, <b>45</b> 0, 828
742, 765, 048	693, 034, 987	776, 292, 653	735, 442, 590	840, 562, 269	850, 703, 659	775, 095, 615	758, 988, 03
3, 529, 842 168, 568				4, 126, 388 159, 014			
859, 8 <b>6</b> 8	·			•	Ť		·
4, 558, 278	4, 659, 153	5, 116, 049	4, 627, 711	5, 041, 684	4, 846, 450	5, 187, 904	4, 395, 87
747, 823, 826	697, 694, 140	781, 409, GO2	740, 070, 301	845, 603, 953	855, 550, 109	<b>7</b> 80, 283, 519	763, 383, 903
1, 493, 731 6, 706	2, 207, 630 11, 251	3, 603, 486	3, 649, 170	<b>3,</b> 378, 789 292		4, 046, 237 5, 054	4, 304, 01 64, <b>6</b> 3
352, 564	352, 486	899, 450	662, 209	<b>692</b> , 268	<b>588, 298</b>	5 <b>69</b> , 840	493, 77
1, 648, 806 29, 866, 746							539, 46 42, 839, 42
1, 581, 940 1, 902, 053				2, 091, 375 1, 848, 480			2, 590, 86 2, 839, 60
5, 896, 492 824, 635				7, <b>6</b> 93, 050 1, 757, 590			
20, 898	50, 158	<b>36,</b> 727	221, 504	213, 349	427, 024	74, 012	50, 54
48, 544, 571	58, 246, 998	64, 815, 773	63, 343, 444	56, 285, 557	68, 468, 466	62, 760, 431	59, 375, 61
624, 704 2, 894, 415					1, 173, 734 2, 372, 195		
17, 977, 196 3, 314, 591	19, 449, 056 2, 957, 386		24, 000, 458 · 2, 808, 179		26, 215, 044 2, 436, 118		
4, 310, 864						1, 732, 852	1, 493, 96
28, 621, 772	28, 845, 201	32, 582, 939	80, 972, 687	35, 737, 562	34, 218, 262	85, 985, 433	27, 457, 05
72, 166, 243	86, 592, 28	97, 398, 712	94, 316, 131	92 023 110	102, 681, 728	98, 745, 864	86, 832, 66

<sup>\*</sup>Including the transit trade for India.

THE UNITED KINGDOM-Continued.

# Value of the total imports from each foreign

Countries.  Continent of America.  United States  Mexico  Central America.	1878.  Dollars. 345, 208, 277	1874.  Dollars.	1875.	1876.	1877.
United States		Dollare.			
	1, 990, 326	359, 141, 364 2, 656, 724	<b>Dollars.</b> 338, 207, 662 3, 508, 468	Dollars. 368, 864, 819 8, 217, 962	Dollars. 878, 634, 229 8, 882, 445
	6, 629, 035	5, 447, 448	6, 361, 200	4, 542, 992	6, 709, 866
Venezuela Ecuador United States of Colombia	475, 172	4, 741, 416 245, 649 1, 445, 888	4, 676, 316 180, 181 1, 137, 143	3, 314, 097 266, 707 1, 188, 358	<b>2, 294, 022</b> 309, 771 <b>9</b> 02, <del>944</del>
Peru	3, 751, 157	21, 875, 895 1, 665, 216 22, 844, 479	21, 785, 120 2, 245, 218 20, 393, 027	27, 365, 056 2, 007, 758 17, 421, 146	22, 825, 000 1, 829, 557 15, 939, 867
Brazil Uruguay Argentine Republic			36, 054, 420 5, 878, 747 6, 701, 206	4, 088, 786	30, 836, 510 8, 570, 637 8, 284, 968
Danish West Indies Dutch West Indies					508, 725
French West Indies		·	655, 429 17, 830, 251	,	826, 7 <b>5</b> 4 7, 315, 491
Total foreign	493, 650, 973			14, 804, 851 480, 536, 674	
•	100, 000, 010				
British Possessions: Dominion of Canada Newfoundland Bermudas	2, 968, 143	2, 537, 891	<b>46, 738, 405</b> <b>2, 900, 147</b> <b>22, 61</b> 8	50, 178, 163 3, 897, 514 20, 767	54, 864; 906 4, 079, 896 45, 830
West Indies Guiana Honduras	8, 941, 010	8, 993, 299	9, 292, 242	12, 135, 979	11, 090, 564
Falkland Islands	139, 496	<b>25</b> 2, <b>87</b> 5	243, 394	291, 299	305, 650
Total from British Possessions	89, 601, 720	88, 941, 673	86, 491, 369	88, 501, 787	93, 838, 936
TOTAL FROM AMBRICA	. 583, 252, 702	575, 550, 622	<b>552, 286, 851</b>	569, 038, 461	578, 509, 78
Continent of Asia.					<del></del>
China Japan Dutch India (Java) Frouch India Spanish India (Philippine and Ladrone	2, 728, 355 2, 119, 752 158, 742	2, 809, 741 6, 376, 024	1, 836, 064 7, 011, 070	8, 193, 725 6, 909, 681	3, 569, 17 9, 504, 11
Islands) Asiatic Turkey Persia All other (Siam, Cochin China, Ton-	6, 901, 244 12, 631, 859 53, 416	10, 998, 229 <b>495, 92</b> 8	12, 788, 478 215, 445	13, 874, 255 308, 046	15, 902, 26 720, 70
quin, &c.)	510, 505	431, 257	381, 758	761, 747	197, 09
Total foreign	85, 631, 450	82, 230, 637	96, 205, 962	104, 763, 011	103, 676, 94
British Possessions: India	. 16, 836, 396		15, 305, 647		18, 227, 92
Hong-Kong	. 3, 807, 603	3, 631, 834	5, 612, 863	6, 594, 291	9, 211, 20
Total British Possessions	. 186, 961, 996	185, 414, 263	188, 676, 554	177, 671, 895	196, 054, 57
Total from Asia	. 272, 593, 446	267, 644, 900	284, 882, 516	282, 434, 906	299, 731, 52
Australasia.					
Australasia	. 89, 896, 751	90, 141, 870	99, 917, 488	106, 734, 975	105, 619, 16
	1 404 478 900	1 905 179 599	1 400 102 481	1 400 747 690	1,479,518,37
Grand total from foreign countries Grand total from Britisk Possessions Not designated	893,575,592 6,405,646	399,298,084	408,940,177	405,718,258	484,466,86

THE UNITED KINGDOM-Continued.

country and British Possession-Continued.

						. =	
1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
	•					<del></del>	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
433, 250, 886				428, 893, 799		+	
2, 464, 418	2, 832, 209			2, 814, 766			
4, 706, 600		6, 507, 170	<b>5,</b> 818, 0 <b>3</b> 2	7, 512, 792			5, 176, 386
4, 534, 069			6, 668, 586	5, 444, 998			1, 152, 300
477, 976					1, 589, 565		
1, 456, 952	2, 542, 616	8, 146, 029	1, 413, 536	<b>1, 106, 282</b>	1, 259, 644	1, 062, 440	733, 860
<b>25, 429, 002</b>							
2, 902, 986					1, 757, <b>2</b> 67		
10, 688, 865	18, 167, <del>44</del> 8	16, 799, 236	13, 270, 322	16, 701, 779	16, 668, 609	12, 618, 804	12, 131, 532
22, 601, 857			30, 814, 412				
3, 180, 161		8, 375, 722	<b>2, 262, 315</b>	4, 066, 940	8, 104, <b>94</b> 7		
<b>5, 845, 6</b> 01	4, 025, 852	<b>4</b> , 309, 012	2, 845, 131	5, 998, 450	4, 596, 141	5, 631, 734	9, 181, <b>4</b> 54
290, 419	174, 576	<b>341, 63</b> 8	210, 054	489, 159	222, 083	186, 619	82, 184 289, 170
148, 896	57, 610	665	118, 229	<b>4</b> 0, <b>6</b> 24	77, 284	18, 623	8, 363
<b>8, 771, 67</b> 8	14, 238, 954	8, 517, 806	<b>7, 895, 06</b> 0	8, 595, 576	5, 217, 181	4, 502, 163	4, 787, 100
526, 199, 875	542, 918, 729	612, 647, 087	589, 031, 587	529, 836, 437	570, 838, 681	498, 804, 522	491, 433, 422
43, 128, 889	47, 794, 687	<b>62</b> , 842, 575	52, 027, 664	47, 969, 502	57, 176, 554	50, 484, 884	48, 416, 292
<b>8,</b> 190, 945	2, 971, 685	2, 227, 907	2, 893, 911	2, 568, 908	2, 522, 859	8, 168, 749	1, 871, 100
45, 849	42, : 29	27, 668	43, 210	26, 735	25, 213	27, 770	22, 842
20, 516, 286	23, 611, 396	21, 626, 237	18, 005, 323	20, 049, 075	15, 417, 937	12, 879, 897	10, 304, 062
<b>9, 372, 68</b> 0	10, 730, 671	10, 308, 211	9, 675, 419	11, 685, 063	8, 335, 741	11, 528, 089	6, 942, 996
886, 926	1, 008, 097	722, 559	986, 561	1, 163, 902	1, 210, 969	1, 873, 387	1, 122, 174
450, 604	808, 221	472, 158	448, 393	<b>475, 2</b> 21	887, 789	838, 066	<b>395,</b> 118
77, 592, 179	86, 446, 486	98, 227, 315	84, 080, 481	83, 938, 406	85, 076, 502	<b>79, 299, 79</b> 2	69, 074, 584
603, 791, 554	<b>629, 365, 2</b> 15	710, 874, 402	673, 112, 068	613, 274, 843	655, 415, 248	573, 104, 314	560, 508, 006
66 100 540	89 AKE 030	57 474 OFA	50 000 00F	40 000 400	40 000 411	40 005 540	41 004 800
<b>66</b> , 100, 549 <b>3</b> , 055, 993				48, 289, 407 3, 503, 098		<b>49, 285, 148</b> <b>8, 219, 317</b>	41, 864, 526 2, 395, 008
8, 994, 125				18, 174, 185	8, 222, 627 19, 860, 882		
2, 872	81, 516		7, 873	120, 164	196, 067		88, 938
6, 112, 612	7 100 700	9 904 000	11 200 004	11 010 500	0 114 500	# REE 000	4 749 004
12, 507, 234				11, 212, 588 13, 002, 692	8, 116, 509 17, 330, 940		4, <b>763</b> , 296 15, 297, 822
842, 520			402, 165	513, 760	777, 947		381, 510
11, 411	<b>264, 64</b> 2	2, 254, 292	<b>267, 969</b>	96, 503	<b>361, 68</b> 1	_	953, 046
			<u> </u>				
97, 626, 816	84, 513, 294	93, 005, 189	94, 034, 880	94, 912, 407	99, 155, 624	92, 907, 390	80, 591, 436
400 400							
133, 506, 499	120, 033, 339						154, 949, 922
12, 830, 616 14, 201, 984							
'			• •	11, 703, 064			
5, 707, 919		6, 092, 209	4, 936, 380	6, 948, 580	5, 695, 852	5, 114, 188	4, 706, 424
165, 747, 018	156, 495, 796	186, 893, 797	192, 219, 098	234, 929, 541	227, 786, 956	206, 450, 948	192, 858, 406
263, 373, 884	241, 009, 090	279, 898, 986	<b>286</b> , <b>252</b> , <b>97</b> 8	829, 841, 948	<b>826, 942, 58</b> 0	299, 358, 338	273, 449, 844
خجنت نيد							
144 822 444	105 545 151	101 75 75	464 444 4	465 515 157	400 040		
101, 855, 402	106, 747, 178	124, 723, 803	181, 100, 852	122, 848, 498	126, 049, 987	137, 589, 987	113, 360, 956
4 494 445 44	1 000 004 000		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
1,410,135,810							
377,874,649 4,215,348							
-,210,03C	2,172,000	7,210,104	3,010,301	4,182,983	0,000,310	0,700,410	V, 000, 000
1,792,225,807	1,764,140,518	1,998,575,689	1,929,529,297	2,007,275,294	2,074,693,073	1,895,490,245	1,802,904,261
				,		1	

#### THE UNITED KINGDOM-Continued.

Value of the total exports to each for

Countries.	1873.	1874.	1875.	1876.	1877.
Continent of Europe.		_		_	
tussia:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Products of United Kingdom					
Foreign and colonial products	. 12, 380, 899 . 56, 109, 823				10, 037, 5 80, 345, 70
weden:	. 30, 100, 020	01, 000, 010	00, 112, 000	11,000,201	00,010,1
Products of United Kingdom					
Foreign and colonial products					
Total	. 22, 425, 129	22, 551, 853	20, 363, 766	21, 039, 033	18, 967, 4
orway: Products of United Kingdom	. 9, 140, 941	9, 769, 033	8, 444, 017	7, 346, 075	8, 393, 33
Foreign and colonial products					
Total	. 11, 512, 247				
enmark:		40.044.000			0.004.5
Products of United Kingdom					
Foreign and colonial products	. 1, 863, 052 . 14, 845, 784				
Total	12,020,103	10, 501, 144	10, 003, 000	12, 028, 110	11, 001, 0
Products of United Kingdom	. 132, 533, 862	120, 567, 252	113, 179, 111	97, 599, 793	95, 460, 7
Foreign and colonial products	45, 873, 914	50, 192, 967	52, 051, 981	46, 910, 771	45, 237, 8
Total	178, 407, 776	170, 760, 219	165, 231, 092	144, 510, 564	140, 698, 6
ollund:	01 004 401	70 11E 700	CO 1750 000	E7 007 180	40 705 0
Products of United Kingdom Foreign and colonial products					46, 725, 9 81, 192, 6
Total	119, 450, 527				77, 918, 5
lgium :	210, 200, 021	200, 201, 020	01,101,010	00,000,000	01,020,0
Products of United Kingdom					
Foreign and colonial products					<b>3</b> 1, 374, 9
Total	. 69, 162, 243	61, 495, 242	67, 042, 582	62, 381, 215	<b>57</b> , 152, 8
ance: Products of United Kingdom	. 84, 038, 114	79, 559, 531	74, 635, 637	78, 176, 089	59, 172, 8
Foreign and colonial products	62, 714, 388	63, 272, 180		62, 765, 238	55, 551, 5
Total	. 146, 752, 502			140, 941, 327	
ringal:		, ,	,		
Products of United Kingdom			12, 995, 001	11, 248, 130	
Foreign and colonial products			2, 565, 910	1, 974, 190	3, 074, 9
Totalain:	16, 268, 038	15, 662, 711	15, 561, 001	13, 222, 320	14, 449, 6
Products of United Kingdom	18, 159, 973	19, 752, 163	16, 671, 467	19, 402, 894	17, 675, 4
Foreign and colonial products	3, 845, 217			3, 908, 086	3, 063, 2
Total	. 22, 005, 190			23, 310, 980	20, 738, 6
aly:	00 170 700	00 056 000	00 000 170	00 510 404	20 000 4
Products of United Kingdom Foreign and colonial products	. 36, 178, 788 5, 479, 611				30, 222, 4 5, 495, 3
Total	41, 658, 399				35, 717, 7
astria-Uungary:	12, 000, 000	0., .0., 0.	00, 100, 100	00, 200, 010	55, 111, 1
Products of United Kingdom	, , ,				5, 082, 1
Foreign and colonial products					1, 782, 2
Totalreece:	. 6, 823, 101	<b>6, 978, 338</b>	5, 716, 921	5, 401, 292	6, 844, 4
Products of United Kingdom	4, 828, 755	4, 910, 121	4, 560, 896	4, 011, 885	4, 212, 9
Foreign and colonial products					578, 0
Total	. 5, 383, 422				
onmania:		,			APA =
Products of United Kingdom Foreign and colonial products				8, 438, 780	
Total	446, 671 5, 692, 910				
arkey in Europe:	0, 002, 010	0, 000, 001	0, 000, 000	0, 051, 002	1, 1.0, 0
Products of United Kingdom					14, 751, 5
Foreign and colonial products					1, 405, 1
Totaltal to foreign countries:	. 25, 511, 078	24, 241, 889	<b>1</b> 9, 476, 450	18, 134, 011	16, 156, 6
Products of United Kingdom	. 524, 155, 973	482 838 078	416, 428, 391	413, 485, 401	370, <b>906, 6</b>
Foreign and colonial products			228, 552, 195		
Total	744, 008, 209		674, 980, 586	631, 924, 575	
British Possessions.				-	ı
•					
hannel Islands: Products of United Kingdom	2 420 4.64	9 <b>ሰብ</b> ች በ17	0 118 500	9 PIE 070	9 800 0
Products of United Kingdom Foreign and colonial products	3, <b>439</b> , 664 756, 206		<b>3, 115, 503</b> <b>729, 6</b> 22	<b>2</b> , 845, 972 828, 747	2, <b>699</b> , 0 893, 0
Total	4, 195, 270	•			
ibraltar :		3) 1 1 7) 1 10	01 0301 150	U, UIZ, 110	7,000,1
Products of United Kingdom		5, 516, 970	4, 710, 419	5, 447, 404	4, 024, 1
Foreign and colonial products	491.462	480, 416	<b>6</b> 90, 028		
Total	6, 312, 250	<b>5, 997, 386</b> ,	5, 400, 447	5, 868, 164	4, 352, 4

THE UNITED KINGDOM-Continued.

eign country and British Possession.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<b>Dollars.</b> 31, 879, 082 14, 576, 340 46, 455, 422	<b>Dollars.</b> 87, 152, 897 14, 397, 526 51, 550, 423		15, 127, 074	Dollars. 28, 051, 176 13, 937, 404 41, 988, 580		13, 611, 399	
8, 195, 442 5, 170, 457 13, 865, 899	6, 804, 413 4, 762, 372 11, 566, 785	6, 205, 001	10, 115, 171 5, <b>6</b> 27, 973 15, 742, 244	11, 336, 781 5, 113, 774 16, 450, 555	5, 478, 206	5, 554, 014	5, 981, 202
5, 406, 234 2, 244, 105 7, 650, 359	5, 278, 791 2, 247, 818 7, 526, 609	3, 207, 284	2, 518, 471	6, 783, 141 2, 074, 763 8, 857, 904		1, 678, 547	
7, 417, 828 1, 816, 537 9, 234, 365	8,008, 634 1, 879, 848 9, 888, 482	2, 176, 862	2, 040, 797	10, 535, 226 1, 362, 198 11, 897, 424	1, 612, 781	1, 957, 024	1, 701, 850
94, 461, 943 47, 202, 628 141, 664, 571	53, 616, 643	58, 8 <b>65,</b> 020		89, <b>997, 598</b> 58, 352, 212 148, 349, 810	63, 149, 795	58, 610, 890	
45, 213, 017 26, 112, 950 71, 325, 967	45, 458, 314 29, 584, 076 75, 040, 351	81, 141, 835		45, 585, 522 83, 399, 704 78, 985, 226	30, 941, 716	38, 841, 572	43, 147, 566 33, 881, 004 77, 028, 570
26, 834, 926 28, 333, 139 53, 188, 063	24, 817, 488 32, 955, 480 57, 772, 968	34, 950, 233	34, 385, 176 81, 406, 807 65, 791, 983	89, 270, 346 34, 199, 348 73, 469, 681	31, 235, 565	30, 519, 920	<b>29,</b> 500, 630
72, 048, 941 57, 207, 415 129, 256, 356	72, 845, 845 56, 227, 653 129, 073, 498	75, 789, 265 60, 246, 796 136, 036, 061	82, 474, 321 63, 741, 901 146, 216, 312		<b>57, 405, 459</b>	81, 387, 300 46, 622, 693 128, 609, 393	
10, 284, 217 2, 424, 416 12, 708, 633	9, 229, 330 2, 566, 464 11, 795, 794	10, 233, 576 2, 418, 550 12, 652, 126	10, 171, 465 2, 173, 163 12, 344, 628	9, 510, 574 1, 993, 805 11, 504, 379		9, 569, 884 2, 031, 742 11, 601, 626	8, 487, 018 .1, 723, 356 10, 210, 374
15, 605, 100 2, 837, 307 18, 442, 407	14, 289, 314 3, 984, 051 18, 273, 865	15, 659, 027 4, 162, 954 19, 821, 981	17, 761, 895 8, 592, 575 21, 353, 970	17, 834, 843 5, 725, 294 23, 539, 637	18, 395, 265, 5, 303, 276, 23, 698, 541	18, 801, 070 4, 287, 535 23, 088, 625	15, <b>3</b> 97, 452 3, 628, 476 19, 025, 928
26, 008, 252 5, 248, 936 31, 317, 188	24, 220, 565 5, 132, 656 29, 853, 221	26, 403, 933 4, 374, 544 30, ?78, 477	<b>92, 225, 975</b> <b>4,</b> 810, 212 <b>36, 536,</b> 187	31, 494, 034 4, 793, 986 36, 288, 040	34, 612, 667 5, 214, 173 39, 826, 840	83, 991, 894 5, 194, 616 39, 186, 010	32, 208, 193 4, 086, 288 36, 294, 480
3, 708, 345 1, 586, 003 5, 294, 348	3, 883, 553 1, 205, 086 5, 088, <b>6</b> 39	2, 884, 706 1, 144, 092 4, 028, 798	<b>8, 371, 2</b> 56 965, 157 <b>4, 336, 4</b> 13	8, 421, 254 2, 012, 550 5, 433, 804	4, 702, 191 2, 807, 773 7, 509, 964	4, 582, 159 2, 263, 788 6, 845, 947	3, 831, 624 1, 642, 194 5, 473, 818
4, 772, 699 720, 101 5, 492, 800	4, 589, 373 666, 311 5, 255, 684	3, 967, 769 473, 996 4, 461, 765	<b>5, 540, 5</b> 55 668, 435 <b>6, 208, 9</b> 30	5, 227, 080 719, ⋈00 5, <b>940,</b> 880	6, 263, 937 746, 389 7, 010, 326	5, 777, 101 757, 975, 6, 533, 076	4, 270, 482 457, 813 4, 728, 293
4, 311, 734 549, 117 4, 860, 851	4, 845, 799 487, 720 5, 333, 519	.5, 408, 018 420, 395 5, 828, 413	6, 428, 016 504, 891 6, 932, 907	4, 726, 637 267, 689 4, 934, 326	<b>6</b> , 525, 039 290, 735 <b>6</b> , 815, 824	4, 609, 822 351, 397 4, 961, 219	3, 848, 034 266, 329 4, 114, 963
20, 221, 323 1, 964, 417 22, 185, 740	20, 207, 516 1, 766, 518 21, 974, 034	18, 801, 741 1, 720, 937 20, 522, 678	17, 878, 020 1, 820, 211 19, 698, 231	17, 070, 750 1, 850, 086 18, 920, 836	16, 618, 722 2, 452, 176 19, 070, 898	16, 502, 444 2, 353, 581 18, 856, 025	15, 082, 038 2, 430, 864 17, 518, 842
876, 449, 103 197, 993, 868 574, 442, 971	871, 984, 741 211, 480, 207 583, 464, 948		394, 277, 152 223, 038, 237 617, 315, 389		414, 307, 227 223, 165, 076 637, 472 303	411, 010, 431 214, 636, 113 625, 646, 544	363, 758, 850 187, 562, 933 531, 321, 803
2, 603, 001 963, 626 3, 566, 627	2, 910, 338 1, 041, 648 3, 951, 986	2, 834, 626 1, 128, 157 3, 962, 783	3, 120, 917, 901, 999 4, 112, 916	2, 811, 442 1, 015, 662 3, 827, 104	2, 735, 538 979, 416 3, 714, 954	<b>2, 988, 38</b> 5 920, <b>6</b> 98 <b>8, 909, 083</b>	2, 488, 820 955, 932 8, 441, 282
3, 451, 898 329, 425 8, 781, 823	3, 293, 559 301, 213 3, 594, 772	3, 751, 249 280, 961 4, 032, 210	3, 515, 286 353, 025 3, 868, 311	3, 557, 680 479, 808 4, 037, 488	3, 521, <b>677</b> 370, 108 3, 891, 785	8, 895, 959 474, 404 8, 870, 363	8, 037, 500 439, 880 8, 477, 339

## THE UNITED KINGDOM—Continued.

# Value of the total exports to each foreign

Countries.	1873.	1874	1875.	1876.	1877.
British Possessions—Continued.					
Malta and Gozo:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
Products of United Kingdom Foreign and colonial products	4, 807, 38 <b>6</b> 731, 863	8, 994, 828 854, 344	3, 384, 242 795, 213	<b>4, 346, 055</b> 803, <b>936</b>	8, 982, 162 815, 848
Total	5, 539, 249				
Total to British Possessions:			, ,		
Products of United Kingdom Foreign and colonial products	14, 067, 238 1, 797, 531				
Total	15, 864, 769	15, 618, 268			
TOTAL TO EUROPE:	E20 002 011	496, 117, 693	457 AND EEE	494 194 999	901 619 011
Products of United Kingdom Foreign and colonial products	538, 223, 211 221, 649, 867				<b>381, 612, 01</b> 1 <b>203, 240, 7</b> 51
Grand total	759, 873, 078				
Continent of Africa.	,		•	•	
French Possessions:	401 071	200 001	004 040	1 110 411	1 700 400
Products of United Kingdom Foreign and colonial products	401, 951 6, 361	320, 361 18, 842	836, 843 51, 846	1, 113, 411 18, 274	1, 503, 465 47, 434
Total	408, 312	<b>339,</b> 203	888, 689	1, 131, 685	
Portuguese Possessions:	9 289 AKA	2, 054, 128	1 100 020	1, 002, 817	1 059 00
Products of United Kingdom Foreign and colonial products	2, 862, 054 131, 084	2, 034, 128 94, 328	1, 190, 039 120, 899	1, 002, 817 156, 759	1, 053, 27, 149, 35
· Total	2, 993, 138			1, 159, 576	
Spanish Possessions: Products of United Kingdom	897, 812	960, 979	708, 271	719, 334	<b>835, 82</b> 1
Foreign and colonial products	391, 150	125, 208,			
Total	1, 288, 962	1, 086, 187		774, 582	
Egypt: Products of United Kingdom	*30, 238, 983	17, 423, 615	14, 316, 812	12, 783, 778	11, 048, 292
Foreign and colonial products	488, 177	<b>433</b> , 284	439, 529	276, 996	260, 77
Total	30, 727, 160	17, 856, 899	14, 756, 841	13, 060, 774	11, 309, 06
Pripoli and Tunis: Products of United Kingdom	313, 975	495, 686	<b>595, 62</b> 7	321, 231	183, 047
Foreign and colonial products	55, 988	112, 839	100, 247	<b>62,</b> 718	51, 978
Total	369, 963	608, 525	<b>69</b> 5, 874	383, 949	<b>2</b> 35, 020
Morocco: Products of United Kingdom	1, 525, 024	2, 155, 002	1, 664, 161	1, 925, 906	1, 908, 909
Foreign and colonial products	250, 645	339, 481	381, 082	353, 925	332, 204
Total West Coast:	1, 775, <b>609</b>	<b>2, 494, 4</b> 83	2, 045, 243	<b>2, 279, 83</b> 1	2, 261, 20
Products of United Kingdom	4, 632, 435	3, 7u2, 990	<b>3, 365, 1</b> 51	4, 215, 370	4, 989, 84
Foreign and colonial products	1, 381, 378	1, 304, 774	1, 213, 785	1, 230, 955	1, 381, 04'
Total East Coast :	<b>6</b> , 013, 813	5, 007, 764	4, 578, 936	5, 446, 825	6, 370, 89
Products of United Kingdom	<b>89, 458</b>	141, 717		439, 548	495, 15
Foreign and colonial products	14, 604 104, 062		19, 192 645, 481	59, 112 498, 660	
Madagascar:	101, 002	201, 101	040, 401	200, 000	001, 40
Products of United Kingdom	125, 748				
Foreign and colonial products	1, 516 127, 264	733 46, 014	1, 813 <b>25, 399</b>	5, 152 113, 277	
Total to foreign countries:			·	·	•
Products of United Kingdom	41, 087, 440 2, 660, 903				
Foreign and colonial products	43, 748, 343				
British Possessions.		,	·		
Sambia and Sierra Leone:					1
Products of United Kingdom	1, 532, 241		1, 336, 918	990, 351	1, 369, 84
Foreign and colonial products	216, 562		256, 812	•	
Total	1, 748, 803	2, 042, 638	1, 593, 730	1, 211, 918	1, 360, 51
Products of United Kingdom	1, 877, 467				
Foreign and colonial products Total	166, 513 2, 043, 980				
South Africa—Cape Colony and Natal:	2, V30, 800	4, <del>400,</del> 340	2, <del>128,</del> 110	4, <del>48</del> 6, 010	4, (UU, UZ
Products of United Kingdom	21, 670, 340				20, 002, 27
Foreign and colonial products  Total	1, 509, 059 22, 579, 399				
Mauritius:	, 0.0, 000	,, 100	_3, 500, 502	, 100, 020	-1,000,01
Products of United Kingdom Foreign and colonial products					2, 334, 21
	158, 310	337, 474	126, 462	10 <b>6, 0</b> 35	514, 15

<sup>\*</sup>Transit trade to India included.

### THE UNITED KINGDOM-Continued.

country and British Possession.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollare. 5, 641, 707 1, 022, 860 6, 664, 567	Dollars. 3, 785, 192 901, 511 4, 686, 703	<i>Dollars.</i> 4, 013, 480 895, 557 4, 909, 037	Dollars. 4, 542, 691 984, 048 5, 526, 739	Dollars. 4, 883, 444 920, 178 5, 803, 617	Pollars. 4, 801, 816 832, 207 5, 684, 023	Pollars. 4, 897, 650 673, 280 5, 570, 980	Dollars. 4, 992, 678 734. 782 5, 727, 410
11, 696, 606	9, 939, 089	10, 599, 355	11, 178, 894	11, 252, 566	11, 059, 081	11, 281, 994	2, 130, 524
2, 315, 911	2, 244, 372	2, 304, 675	2, 329, 072	2, 415, 643	2, 181, 731	2, 068, 887	
14, 012, 517	12, 183, 461	12, 904, 030	13, 507, 966	13, 668, 209	18, 240, 762	13, 350, 881	
388, 145, 709 200, 809, 779 588, 455, 488	881, 923, 830 213, 724, 579 595, 648, 409	888, 488, 003 228, 466, 986 616, 899, 991	405, 456, 036 225, 367, 309 680, 823, 345	416, 764, 098 228, 177, 118 644, 941, 216		422, 292, 425 216, 704, 500 638, 996, 925	189, 693, 477
1, <b>039</b> , <b>675</b>	1, 445, 223	1, 78 <b>3</b> , 717	1, 969, 602	2, 039, 669	2, 449, 440	8, 182, 586	2, 852, 306
<b>49</b> , 703	63, 107	102, 313	131, 083	87, 460	98, <b>69</b> 7	94, 881	58, 848
<b>1, 089, 8</b> 78	1, 508, 330	1, 886, 030	<b>2, 100, 6</b> 85	2, 127, 129	<b>2,</b> 548, 137	8, 276, 967	2, 910, 656
999, 921	1, <b>36</b> 1, 918	1, 685, 142	1, 995, 385	1, <b>986, 146</b>	2, 196, 458	4, 909, 917	2, 151, 52;
79, 796	185, 235	143, 477	103, 675	181, <b>672</b>	253, 954	204, 840	110, 808
1, 079, 717	1, <b>49</b> 7, 153	1, 778, 619	2, 099, 060	<b>2,</b> 11 <b>7,</b> 818	2, 450, 412	5, 114, 757	2, 262, 880
857, 576	880, 797	1, 045, 721	965, 287	646, 147	980, 885	864, 419	
128, 503	274, 041	237, 780	188, 126	54, 014	65, 148	97, 553	
966, 079	1, 154, 838	1, 283, 501	1, 123, 418	700, 161	1, 045, 983	965, 972	
10, 662, 986 840, 905 11, 003, 891	10, 418, 290 817, 501 10, 735, 791	14, 876, 716 556, 081 15, 432, 701		11, 909, 449 825, 787 12, 735, 236	652, 178	14, 061, 977 938, 108 14, 995, 080	1, 068, 228
227, 586	278, 930	429, 883	461, 841	895, 751	833, 281	476, 620	41 <b>3,</b> 100
46, 884	6, 512	11, 852	6, 823	23, 216	48, 357	84, 506	80, 183
274, 420	285, 442	441, 235	468, 664	918, 967	881, 638	511, 126	443, 283
929, 679	1, 190, 880	1, 200, 842	1, 818, 619	1, 028, 929	1, 256, 208	1, 419, 135	2, 076, 678
841, 820	838, 066	268, 188	270, 980	655, 522	283, 484	390, 282	655, 614
1, 771, 499	1, 528, 946	1, 468, 530	1, 584, 549	1, 679, 451	1, 539, 692	1, 808, 417	2, 732, 293
5, 949, 899	8, 1 <b>92</b> , 544	8, 657, 641	4, 006, 278	4, 255, 061	6, 064, 566	5, 407, 480	8, 772, 810
1, 196, 406	978, <b>2</b> 32	1, 029, 120	884, 821	968, 447	1, 190, 497	1, 009, 412	1, 011, 850
6, 245, 806	4, 165, 876	4, 686, 761	4, 890, 599	5, 228, 498	7, 255, 068	6, 416, 842	4, 784, 670
<b>630, 956</b>	2, 195, 418	762, 825	706, 804	757, 878	1, 124, 984	894, 690	
<b>36, 785</b>	83, 539	48, 098	25, 408	21, 175	28, 059	16, 038	
<b>666, 841</b>	2, 228, 967	805, 428	782, 212	779, 053	1, 147, 998	410, 728	
105, 029	74, 975	241, 105	224, 989	179, 481	187, 018	6, 862	<b>82,</b> 562
3, 470	8, 680	7, 071	25, 408	21, 175	8, 179	267	484
108, 490	78, 605	248, 176	650, 397	200, 606	190, 192	7, 129	<b>33,</b> 048
29, 501, 857 3, 724, 272 28, 276, 129	21, 088, 975 2, 144, 963 28, 188, 988	25, 632, 586 2, 893, 480 28, 026, 066	27, 062, 657 2, 420, 698 29, 483, 355	23, 648, 451 2, 838, 467 26, 481, 918		80, 728, 686 2, 684, 882 83, 408, 018	8, 021, 004
1, 753, 296	1, 525, 457	1, 598, 750	1, 367, 614	1, 550, 957	1, 812, 090	1, 779, 542	1, 088, 096
250, 174	277, 725	290, 108	176, 462	203, 916	208, 702	188, 004	172, 530
2, 012, 380	1, 803, 182	1, 888, 858	1, 544, 076	1, 754, 873	2, 020, 792	1, 967, 546	1, 210, 626
2, 496, 468	2, 091, 161	2, 240, 528	1, 757, 484	2, 803, 460	2, 845, 572	2, 711, 151	2, 197, 206
223, 992	218, 948	200, 276	159, 952	197, 899	184, 068	179, 830	253, 206
2, 710, 455	2, 810, 104	2, 449, 8 <del>0</del> 4	1, 917, 886	2, 501, 359	2, 479, 685	2, 890, 981	2, 450, 412
23, 878, 657	28, 445, 700	<b>82, 220,</b> 781	84, 874, 688	36, 428, 392	22, 145, 960	19, 987, 086	18, 585, 126
2, 651, 917	2, 511, 838	2, 800, 915	8, 013, 127	2, 858, 816	2, 155, 250	2, 094, 046	1, 740, 866
26, 530, 574	30, 957, 598	85, 021, 646	87, 387, 810	39, 287, 208	24, 801, 210	22, 031, 132	20, 825, 492
1, 989, 451 107, 892	1, 658, 509 122, 880 1, 781, 889	1, 740, 658 133, 971 1, 874, 629	2, 181, 994 209, 422 2, 341, 416	2, 892, 704 264, 687 2, 657, 341	2, 461, 218 860, 296		1, 278, 18 <sub>0</sub> 149, 68 <sub>8</sub>

## THE UNITED KINGDOM-Continued.

# Value of the total exports to each foreign

Countries.	187 <b>8.</b>	1874.	1875.	1876.	1877.
British Possessions—Continued.					
Total to British Possessions: Products of United Kingdom Foreign and colonial products Total	Dollars. 27, 808, 048 2, 050, 444 29, 358, 492	2, 667, 923	<b>2, 726, 853</b>		2, 793, 271
Total to Africa: Products of United Kingdom Foreign and colonial products Total	68, 895, 488 4, 711, 347 73, 106, 885	5, 160, 096	5, 150, 808	4, 263, 278	5, 108, 443
Continent of America.					
United States: Products of United Kingdom Foreign and colonial products Total	163, 172, 867 15, 181, 474 178, 354, 841	19, 423, 048	15, 522, 682	<b>16, 490, 5</b> 15	17, 054, 124
Mexico: Products of United Kingdom Foreign and colonial products Total	5, 803, 443 902, 740 6, 706, 183	<b>963, 558</b>	465, 661	362, 507	370, 356
Central America: Products of United Kingdom Foreign and colonial products Total United States of Colombia:	1, 608, 111 209, 281 1, 817, 392	89, 395	140, 668		<b>205, 4</b> 71
Products of United Kingdom Foreign and colonial products Total	14, 944, 364 127, 502 15, 071, 866	103, 051	111, 552	91, 747	4, 482, 855 94, 611 4, 527, 466
Products of United Kingdom Foreign and colonial products Total Ecuador:	2, 564, 160 68, 113 2, 632, 278	104, 991	155, 598		<b>68, 0</b> 30
Products of United Kingdom Foreign and colonial products Total Peru:	493, 970 37, 630 531, 600	10, 774	632, 796 16, 106 648, 902	19, 289	1, <b>224</b> , 112 18, 191 1, 2 <b>42</b> , <b>3</b> 03
Products of United Kingdom Foreign and colonial products Total Bolivia:	12, 269, 663 1, 052, 836 13, 322, 499	1, 150, 440	1, 086, 123	865, 760	751, 536
Products of United Kingdom Foreign and colonial products Total Chili:	867, 027 32, 396 399, <b>4</b> 23	97, 312		119, 119	152, 094
Products of United Kingdom Foreign and colonial products Total	15, 882, 405 704, 690 16, 087, 095	687, 160 14, 057, 477	11, 391, 596	10, 095, 823	,
Products of United Kingdom Foreign and colonial products Total Urnguay:	36, 667, 091 1, 613, 160 38, 280, 251	39, 104, 289	1, 472, 167 34, 557, 893	1, 538, 715 30, 308, 933	2, 173, 956 31, 133, 019
Products of United Kingdom Foreign and colonial products Total Argentine Republic:	8, 563, 524 509, 284 9, 072, 808	389, 373 <b>6,</b> 338, 198	215, 122 3, 684, 336	5, 061, 782	5, 499, 264
Products of United Kingdom Foreign and colonial products Total Danish West Indies:	18, 123, 377 894, 374 18, 517, 751	311, 997 15, 514, 767	12, 104, 836	262, 275 7, 763, 841	446, 794 10, 614, 400
Products of United Kingdom Foreign and colonial products Total  Dutch West Indies and Guiana:	1, 680, 999 89, 230 1, 770, 229	88, 490	77, 089	1, 250, 643 74, 888 1, 325, 531	55, 001
Products of United Kingdom Foreign and colonial products Total  French Possessions:					
Products of United Kingdom Foreign and colonial products Total Spanish West Indies:	230, 806 18, 857 249, 663	22, 875 330, 295	123, 536 844, 604	843, 612 906, 400	389, 675 1, 264, 862
Products of United Kingdom Foreign and colonial products Total	13, 874, 365 1, 955, 703 15, 830, 068	2, 255, 464	1, 784, 050		2, 290, 994

THE UNITED KINGDOM-Continued.

country and British Possession—Continued.

1878.	1879.	1880	1881.	1882.	1883.	1884. ————	1885.
<b>Dollars. 80</b> , 107, 777 <b>8</b> , 242, 975 <b>88</b> , 850, 752	8, 131, 886	8, 425, 270	<b>Dollars.</b> 89, <b>631, 72</b> 5 8, 558, 9 <b>63</b> <b>43, 190, 68</b> 8	<b>Dollars.</b> 42, 675, 518 3, 525, 268 46, 200, 781	<b>Dollars.</b> 28, 764, 840 8, 858, 311 32, 628, 151	<i>Dollare.</i> 26, 815, 102 2, 655, 084 28, 970, 186	
50, 609, 684 5, 967, 247 56, 576, 881	5, 276, 849	5, 818, 750	5, 979, 661	6, 363, 735		57, 038, 788 5, 339, 466 62, 878, 204	
70, 728, 089 14, 481, 964 85, 205, 053	25, 256, 443	34, 499, 326	144, 810, 008 33, 955, 600 178, 765, 608	37, 609, 091	45, 487, 855	118, 718, 451 40, 895, 819 159, 109, 270	
3, 758, 889 420, 959 4, 179, 848	350, 581	279, 509	379, 785	9, 046, 560 466, 962 9, 513, 522	7, 544, 120 830, 145 7, 874, 265	4, 946, 829 817, 295 5, 264, 124	3, 888, 560 343, 602 4, 212, 163
8, 557, 607 105, 726 8, 723, 338	8, 511, 972 125, 869 8, <b>637</b> , 841		4, 578, 979 126, 068 4, 700, 047	3, 612, 759 135, 390 8, 748, 149	4, 078, 468 102, 789 4, 181, 257	4, 846, 779 148, 698 4, 495, 472	8, 258, 144 110, 327 3, 368, 466
5, 044, 447 82, 450 5, 126, 897	4, 287, 443 107, 435 4, 394, 878		5, 765, 977 225, 786 5, 991, 763	4, 940, 715 848, 870 5, 289, 585	277, 166	5, 639, 082 297, 548 5, 936, 630	3, 208, 086 169, 128 3, 377, 214
2, 800, 146 49, 426 2, 349, 572	39, 599	42, 248	89, 808	2, 285, 682 18, 449 2, 804, 131	16, 208	2, 916, 972 26, 905 2, 943, 877	
972, 539 50, 053 1, 022, 592	74, 640		88, 948	1, 145, 531 68, 176 1, 213, 707		1, 880, <b>62</b> 6 <b>87, 68</b> 9 1, 918, 315	628, 884 43, 254 672, 138
6, 657, 379 1, 074, 910 7, 732, 289	3, <b>6</b> 82, 495 785, 298	825, 557	8, 933, 287 660, 940 4, 594, 177	4, 785, 482 892, 549 5, 678, 031	742, 258	5, 252, 950 808, 135 6, 061, 085	8, 422, 412 572, 023 8, 994, 436
<b>356, 700</b> 45, 830 402, 530	30, 424	50, 340	57, 986	440, 331 58, 825 498, 656		<b>26</b> 3, <b>72</b> 8 84, 487 <b>296</b> , 215	312, 496 52, 976 865, 472
5, 787, 740 495, 836 6, 283, 076	479, 443		804, 507	740, 460	706, 886	10, 155, <b>65</b> 0 5 <b>9</b> 5, 525 10, 751, 175	711, 50
27, 108, 847 3, 019, 319 30, 128, 166	1, 462, 636	1, 135, 748	1, 253, 967	2, 185, 211	1, 782, 954	1, 543, 920	25, 846, 861 1, 427, 500 27, 278, 876
4, 849, 726 181, 176 5, 030, 902	219, 565	165, 827	118, 584	148, 448	200, 728		
11, 260, 805 379, 872 11, 640, 677	409, 615	440, 506	858, 945	20, 250, 244 480, 017 20, 780, 261	711, 282	28, 240, 055 620, 855 28, 860, 910	486, 97
1, 155, 907 74, 897 1, 230, 304	978, 205 71, 340	981, 506 76, 780	47, 915	<b>35, 954</b>		718, 758 31, <del>94</del> 4 750, 702	589, 466 23, 814
							698, 86 18, 46 717, 83
904, 519 320, 517 1, 225, 066	362, 247	507, 602	256, 798	122, 540	157, 658	1, 023, 633 232, 449 1, 256, 082	828, <b>6</b> % 136, 08
9, 185, 206 3, 177, 381 12, 862, 587	8, 609, 626 8, 228, 799	7, 141, 716 8, 99 <b>6</b> , 718	10 <b>, 645, 7</b> 18 8, 037, 058	11, 176, 289 4, 047, 466	10, 917, 042 4, 034, 587	<b>6, 638, 828</b> <b>8, 808, 840</b>	7,104, 83 8,718,52

THE UNITED KINGDOM-Continued.

Value of the total exports to each foreign

	•	i	1876.	1877.
Dollars. 2, 663, 892 187, 686	Dollars. 2, 147, 887 87, 538	<b>Dollars.</b> 3, 369, 389 109, 802	<b>Dollare.</b> 1, 742, 232 106, 410	Dollars. 1, 862, 166 69, 691 1, 931, 857
297, 909, 564	251, 744, 522	208, 949, 369 22, 525, 805	165, 745, 390 23, 940, 177	170, 594, 913 24, 983, 480 195, 528, 893
		2, 841, 637	83, 547, 234 2, 885, 513 86, 482, 747	34, 022, 036 2, 838, 536 86, 8 <b>6</b> 0, 572
2, 458, 936 814, 199 2, 773, 185		296, 008	2, 218, 880 408, 489 2, 621, 819	2, 979, 802 284, 190 8, 263, 932
12, 201, 851 1, 110, 991 13, 812, 842		1, 191, 934	10, <b>863</b> , 573 1, 204, 618 1 <b>2, 068</b> , 191	9, 954, 680 891, 897 10, 846, 077
8, 987, 751 412, 785 4, 400, 486	529, 686	506, 762	4, <b>808, 6</b> 67 421, 734 4, 730, 401	4, <del>08</del> 4, 125 645, 704 4, 729, 829
51, 929	67, 710	56, 303	41, 339	575, 545 57, 217 682, 762
59, 1 <b>2</b> 2 27, 016	93, 171 38, 151	84, 438	107, 110 23, 464 130, 574	<b>96, 656</b> <b>3</b> 8, 496 185, 152
58, 866, 589 5, 267, 456	62, 118, 900 6, 889, 225	58, 892, 521 4, 927, 082		
. 28, 164, 720	<b>34, 868, 66</b> 0	27, 848, 085	28, 818, 874	29, 630, 269
227, 984 8, 748 236, 682	180, 206 14, 194 194, 409	222, 102 12, 636 234, 738	345, 546 27, 702 878, 248	768, 852 82, 562 801, 414
28, 729, 927 654, 316 24, 384, 248	23, 090, 861 494, 758 28, 585, 114	23, 652, 510 817, 792 24, 470, 302	22, 410, 335 526, 187 32, 936, 522	21, <b>406</b> , 774 1, 003, 809 <b>22</b> , 410, 588
8, 164, 888 992, 062 9, 156, 945	6, 234, 889 394, 768 6, 629, 657	10, 966, 703 649, 466 11, 606, 169	9, 878, 849 771, 778 10, 650, 627	10, 707, 823 1, 249, 609 11, 956, 982
8, 584, 994 68, 919 8, 603, 918	5, 874, 447 122, 267 5, 996, 714	8, 410, 983 84, 418 8, 495, 401	7, 595, 611 67, 632 7, 663, 243	9, 268, 292 131, 035 9, 899, 827
		85, 429 204 35, 633	87, 864 84 87, 898	78, 439 23 78, 462
53, 600	60, 580	4, 520, 918 47, 400	8, 531, 922 48, 148 8, 580, 070	6, 279, 196 107, 663 6, 386, 861
18, 433, 750 519, 568	11, 686, 759 504, 871	10, 961, 864 888, 061	12, 360, 929 511, 675	12, 585, 524 443, 407 13, 028, 931
150, 470	135, 506	98, 527	40, 498	121, 521 15, 48
	2, 663, 892 187, 686 2, 851, 078 297, 909, 564 23, 084, 956 820, 994, 520 89, 427, 970 8, 350, 586 42, 778, 556 2, 458, 936 314, 199 2, 773, 185 12, 201, 351 1, 110, 991 13, 812, 842 8, 987, 751 412, 783 4, 400, 486 731, 459 51, 929 783, 888 59, 122 27, 016 86, 128 58, 866, 589 5, 267, 456 64, 184, 045 854, 112, 761 28, 164, 726 86, 128 8, 748 296, 682 277, 984 8, 748 296, 682 29, 156, 945 38, 584, 994 683, 918 38, 584, 984 683, 918 38, 584, 984 683, 918 38, 584, 984 683, 918 38, 584, 984 683, 918 684, 918 885, 918 886, 918 886, 918 886, 918 886, 918 887, 918 887, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888, 918 888,	2, 663, 892; 187, 686; 2, 851, 078; 2, 235, 425; 297, 909, 564; 251, 744, 522; 27, 566, 978; 820, 994, 520; 279, 311, 495; 345, 405; 2, 458, 936; 2, 344, 828; 314, 199; 2, 773, 185; 2, 689, 738; 11, 1002, 641; 1, 110, 991; 13, 812, 842; 11, 984, 030; 3, 987, 751; 412, 785; 4, 400, 486; 51, 929; 783, 888; 780, 108; 59, 122; 27, 016; 86, 128; 131, 822; 56, 866, 589; 526, 466; 64, 184, 045; 689, 225; 69, 603, 125; 122; 277, 487; 122; 276; 134; 141; 141; 194; 194; 194; 194; 194; 19	2, 663, 892   2, 147, 887   8, 869, 889   187, 686   87, 538   100, 802   34, 479, 191   297, 909, 564   227, 566, 978   22, 525, 805   220, 994, 520   279, 311, 495   231, 475, 174   282, 682   279, 311, 495   231, 475, 174   282, 682   279, 311, 495   231, 475, 174   282, 682   279, 311, 495   231, 475, 174   282, 682   279, 311, 495   231, 475, 174   282, 682   283, 225   48, 784   183, 225   64, 122, 785   64, 124, 785	2, 663, 802  2, 147, 887, 588   1, 742, 232   187, 686   281, 078   2, 285, 425   3, 479, 191   1, 848, 642   23, 084, 956   27, 666, 978   22, 525, 806   23, 940, 177   231, 475, 174   189, 685, 567   24, 278, 656   47, 886, 884   4, 288   314, 199   345, 405   2, 261, 381, 199   345, 405   2, 261, 381, 199   345, 405   2, 261, 381   1, 109, 981   11, 118, 347   1, 204, 618   1, 118, 347   1, 208, 191   1, 119, 341   1, 208, 191   1, 209, 614, 697   50, 638, 191   7, 710   50, 638, 191   1, 119, 130   671, 000   608, 997   6

THE UNITED KINGDOM-Continued.

country and British Possessions—Continued.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
Dollare. 1, 620, 844 99, 722 1, 720, 566 155, 243, 890 24, 119, 038	Dollars. 788, 860 84, 510 768, 870 174, 980, 768 88, 088, 450	Dollars. 2, 451, 505 74, 212 2, 525, 717 241, 923, 016 43, 141, 266	Dollars. 1. 856, 228 75, 058 1, 931, 281 252, 804, 008 41, 432, 148	Dollars. 1, 203, 282 41, 577 1, 244, 859 266, 320, 305 47, 894, 485	245, 886, 772	43, 785 2, 526, 515 242, 865, 122	36, 176 1, 795, 976 201, 182, 029
179, 862, 928	207, 969, 218		294, 236, 156	818, 714, 790			
28, 804, 778 2, 590, 040 31, 394, 818	2, 968, 206	88, 126, 858 8, 560, 610 86, 706, 968	88, 682, <b>626</b> 4, 006, 171 42, 688, 797	44, 281, 060 4, 884, 284 48, 665, 344	4, 229, 031	4, 619, 901	88, 285, 596 5, 810, 522 38, 546, 118
2, 476, 743 811, 284 2, 787, 977	806, 181	841, 988	2, 198, 017 851, 864 2, 544, 881	<b>2, 860, 78</b> 2 <b>898,</b> 028 <b>8, 258, 7</b> 55	405, 580	<b>2, 663, 642</b> <b>406,</b> 072 <b>8, 069,</b> 114	1, 786, 050 868, 794 2, 154, 844
9, <b>2</b> 33, 713 965, 729 10, 219, 442	10, 156, 131 924, 435 11, 080, 566	10, <b>68</b> 8, <b>90</b> 0 1, <b>27</b> 6, 1 <b>97</b> 11, 915, 097	9, 629, 885 1, 074, 677 10, 704, 062	11, 017, 528 942, 299 11, 959, 827	1, 161, 812	1, 148, 208	9, 188, 744 1, 041, 984 10, 180, 728
<b>2, 634,</b> 896 458, 988 4, 068, 824	<b>3, 057, 844</b> <b>458, 984</b> <b>8, 511, 77</b> 8	649, 194	8, 207, 449 510, 967 8, 717, 516	<b>4, 654,</b> 709 <b>5</b> 89, 095 <b>5, 198, 804</b>	580, 901	524, 199	2, 545, 182 444, 690 2, 989, 872
<b>547, 60</b> 8 40, 484 588, <b>09</b> 2		<b>489, 963</b> <b>54, 4</b> 08 <b>543, 7</b> 71	454, <b>83</b> 2 101, 789 556, 071	476, 892 18 <b>4,</b> 244 611, 136	110, 429		79, 218
105, 802 32, 918 189, 720	58, 495 22, 837 80, 832	120, 586 <b>4</b> 5, 650 1 <b>66, 23</b> 6	115, 206 81, 984 147, 199	145, 056 41, 883 186, 439	106, 696 31, 988 138, 684	105, 083 30, 581 185, 664	102, 060 24, 786 126, 846
44, 808, 525 4, 415, 848 49, 218, 868	40, 180, 034 4, 710, 182 44, 890, 166	52, 269, 795 5, 948, 037 58, 217, 832	54, 282, 015 6, 076, 502 60, 858, 517	<b>63, 435, 977</b> <b>6, 484,</b> 328 <b>69, 870, 3</b> 05		6, 811, 727	7, 269, 994
196, 426, 571 28, 434, 659 226, 861, 290	214, 876, 987 37, 714, 072 252, 091, 009	291, 741, 306 49, 015, 091 840, 756, 897	805, 229, 795 47, 433, 597 852, 663, 892	<b>528, 553, 000</b> 58, 787, 236 882, 840, 236		297, 731, 878 45, 922, 085 843, 658, 463	54, 727, 761
<b>72</b> 5, 112 14, 580 <b>739, 69</b> 2	<b>79</b> 2, <b>66</b> 6 27, 702 820, <b>86</b> 8	1, 100, 304 41, 79 <del>6</del> 1, 142, 100	868, 482 55, 890 924, 872	978, 170 40, 000 1, 018, 170	29, 000	1, 061, 910 88, 894 1, 100, 804	1, 548, 050 51, 516 1, 594, 566
18, 167, 287 1, 029, 858 19, 196, 645	22, 142, 693 2, 881; 867 24, 524, 560	24, 612, 587 2, 190, 504 26, 808, 041	28, 988, 880 1, 808, 875 80, 297, 255	22, 419, 262 1, 853, 961 28, 778, 248	1, 474, 271	20, 184, 562 1, 226, 158 21, 410, 720	25, 210, 278 1, 596, 996 26, 807, 274
12, 711, 894 1, 410, 989 14, 122, 883	12, <b>829, 6</b> 90 1, 747, <b>267</b> 14, <b>567,</b> 957	15, 9 <b>9</b> 3, 803 2, 589, 306 18, 533, 109	18, 727, 653 1, 592, 336 15, 319, 966	10, 29 <b>0</b> , 074 1, <b>42</b> 2, 168 11, 721, 242	1, 578, 037	1, 696, 329	10, 095, 678 1, 076, 064 11, 171, 682
8, 081, 349 53, 5 <b>9</b> 2 8, 1 <b>6</b> 1, 941	7, 987, 002 99, 314 8, 086, 816	8, 492, 515 98, 969 8, 592, 484	7, 959, 761 108, 087 8, 962, 798	9, 424, 721 140, 847 9, 565, 568		187, 197	8, 536, 104 106, 920 8, 643, 024
126, 855		48, 804 4, 272	<b>60, 889</b> 437	22, 954 418	758	<b>36, 678</b> 784	45, 684 486
126, 853 4, 059, 961 92, 913	110, 614 2, 911, 256 67, 855	58, 076 6, 318, 194	7, 220, 448	23, 872 6, 851, 772 156, 448			46, 170 4, 646, 160 114, 696
4, 152, 874	<b>2, 9</b> 78, 611	188, 228 6, 456, 422	113, 457 7, 333, 905	6, 508, 220	6, 068, 259	4, 873, 219	4, 760, 856
17, 483, 991 726, 910 18, 160, 901	14, 824, 531 650, 628 15, 475, 154	13, 594, 854 576, 857 14, 171, 211	15, 554, 537 657, 982 16, 212, 469	14, 142, 804 814, 808 14, 957, 612	15, 898, 624 1, 048, 142 16, 941, 766	14, 530, 297 988, 553 15, 518, 850	14, 728, 870 982, 692 15, 706, 062
178, 187 12, 646 190, 833	100, 728 13, 467 114, 195	1 <b>2</b> 2, <b>929</b> 10, 123 1 <b>33</b> , 052	115, <b>3</b> 13 12, 776 1 <b>28, 089</b>	<b>495,</b> 886 36, 770 <b>532,</b> 656		286, 215 25, 846 811, 561	647, 888 477, 650 1, 125, 488

#### THE UNITED MINGROM-Continued.

## Value of the total exports to each foreign

Countries.	1873.	1874	1875.	1570.	1977.
Continent of Asia—Continued.					
Total to foreign countries:  Products of United Kingdom  Foreign and colonial products  Total	Dollars. 51, 822, 743- 2, 301, 747 58, 624, 490	Dellars. 49, 423, 068 1, 568, 827 59, 986, 787	Dollare. 80, 178, 506 2, 005, 003 62, 182, 509	Dollars. 26, 251, 564 1, 956, 412 58, 207, 966	Dollars. 61, 210, 980 2, 983, 529 64, 194, 500
British Possessions.					
Products of United Kingdom Foreign and colonial products Total	109, 781, 436 4, 864, 540 106, 445, 976		117, 887, 588 6, 650, 745 134, 368, 278	108, 890, 841 4, 179, 883 115, 009, 724	129, 144, 070 6, 223, 764 129, 367, 834
Products of United Kingdom Foreign and colonial products Total Ceylon.	10, 231, 884 922, 684 10, 554, 068	18, 129, 402 507, 484 18, 686, 886	644, 159	9, 569, 077 532, 258 10, 101, 880	11, 059, 863 652, 401 11, 711, 764
Products of United Kingdom Foreign and colonial products Total	5, 118, 070 270, 167 5, 368, 287	5, 629, 255 897, 008 6, 026, 268	5, <b>231</b> , 015 104, 144 5, <b>499</b> , 156	5, 217, 284 295, 2 <i>5</i> 5 5, 512, 489	294, 488
Products of United Kingdom	16, 582, 164 963, 723 17, 645, 987	17, 743, 679 1, 255, 255 18, 998, 934	1, 168, 119	14, 970, 627 881, 745 15, 852, 872	
Products of United Kingdom Foreign and colonial products Total	185, 708, 054 6, 221, 114 141, 929, 168	8, 741, 201	8, 624, 166	7, 888, 636	7, 686, 865
TOTAL TO ASIA: Products of United Kingdom Foreign and colonial products Total	196, 902, 863 8, 514, 118 195, 316, 976	10, 390, 684	10, \$15, 508	194, 558, 287 9, 817, 846 204, 870, 083	216, 774, 001 10, 787, 832 227, 561, 838
Australasia:					
Products of United Kingdom Foreign and colonial products TOTAL TO AUSTRALABIA	85, 585, 839, 7, 851, 252 98, 436, 591 4, 884, 431	92, 545, 791 7, 805, 490 100, 451, 281 2, 953, 421		8, <b>691, 638</b> 94, 624, 505	10, 778,581 104, 507, 171
TOTAL TO ALL COUNTRIES	1,511,489,158	1,446,581,256	1,362,635,890	1,248,085,885	1,226,401,657

#### Quantities and value of

Principal articles.		1	<b>978.</b>		1	874.	_	_1	<b>876.</b>		1	576.		1	ह्य .	
Animala, living, except horses	number. dollars	28,	051, 005,	468	26,	450.	777 968	29,	132,	336 632	4	30,	905 791	84,	075, 976,	101
Becon and hams	dollare	30,	569, 351,	816	28,	685,	805	83,		904 804		51,	728 064	83,	893, 482,	200
Boof, salted and fresh	pounde dollars	2,	182, <b>526</b> ,	800	2,	548,	752 335	2,	208,	072 078		00,	312 799	8,	992, 166	580
Butter and butterine	pounds . dollars.	143, 23,	911, 802,	892 583	181, 48,	418, 988,	496 122	164,		440 609			104 549	46,	389 885,	\$94
Caoutchouo	pounda . dollare .	17, 8,	682, 086,	632 022			256 800	7.	632	948 912		39,	504 008	7,	889, 216,	090
Cheese	pounds dollars	151, 10,	953, 786,	636 482	166,	849,	680 856	182,	807,	778 849	1'		548 882		205, 188,	
COROR	pounds . dollars	183,	402. 189,	576	157,	350	876 670	178,	049,	964 488	14		904 199	180,	125, 756,	844
Corn and flour:			•	Į	, '	_	·		,	J				_	·	- 4
Wheat	( bushels. dollars	81, 128	877, 698,	788 806	77, 122.	776, 651,	424			165 479				101, 164,		
Indian corn and other grain.	bushels dollars	88,	468, 013,	662	₽Ó,	262	048 029	88,	852,	048 982	184,	672, 437,	486	125,	522, 791,	102
Flore	barrels	В,	551, 430,	131	8,	663	454 470	8,	500,	833 449	3,	405, 048,	612	4,	215, 091,	602
Cotton:	LOLLE		200				`""	,	200,			4201	, 400	•••,	***	
Raw	pounds							1,492 224,						1,385 172,		
Yatu	pounds dollars	1,	205, 549,	876	1,	524,	187 939	2,	038	969 831	1,	937, 890,	063	4.	028, 845,	672
Manufactures	dollare		090,				074			157		200			576,	

THE UNITED MINOROUM.—Continued.

### country and British Possession-Continued.

1878.	1879.	1.88	1981,	1881	1888.	MARKET	шм
Dollare. <b>61</b> , 484, 196 3, 870, 988 <b>64</b> , 855, 124	Dollars. 61, 690, 160 4, 967, 695 56, 677, 875	5, 599, 555	Dollars. 74, 495, 413 8, 844, 229 78, 839, 552	Dollars. 64, 184, 648 8, 965, 440 68, 100, 088	4, 438, 898	Dollars. 62, 764, 858 4, 324, 965 67, 089, 218	4, 408, 960
113, 125, 685 6, 717, 866 119, 848, 551	108, 879, 608 6, 518, 751 110, 893, 854	7, 662, 861	142, 325, 874 8, 791, 521 151, 117, 395	141, 199, 169 7, 399, 510 148, 598, 679	7, 712, 292	148, 640, 160 7, 181, 690 155, 821, 850	7, 727, 886
8, 681, 193 618, 140 9, 150, 835	9, 881, 027 746, 588 10, 607, 615	11, 025, 967 928, 185 11, 954, 002	12, 480, 204 873, 293 13, 333, 497	11, 368, 108 769, 185 12, 125, 288	EXT. 534	12, 795, 758 891, 450 18, 687, 208	872, 856
8, 904, 519 229, 460 4, 123, 979	8, 795, <b>26</b> 1 224, 537 4, 019, 798		8, 921, 767 206, 79k 4, 128, 565	8, 541, 054 208, 688 8, 744, 747	8, 528, 728 165, 296 8, 689, 134	3, 584, 483 216, 294 3, 800, 777	157, 950
13, 952, 069, 828, 790 14, 780, 859	14, 327, 202 875, 981 15, 203, 183	921, 412	17, 278, 614 901, 640 18, 178, 154	14, 787, 075 541, 180 15, 278, 255	768, 126	15, 644, 077 1, 791, 109 17, 485, 186	
139, 613, 468 8, 295, 256 147, 908, 724	181, 868, 096 8, 380, 667 140, 223, 950	182, 179, 209 9, 885, 068 192, 064, 272	175, 984, 459 10, 773, 162 196, 757, 611	170, 840, 411 8, 907, 568 179, 748, 469		190, 664, 478 10, 080, 548 190, 745, 021	
200, 872, 492 11, 651, 664 212, 024, 156	192, 760, 607 18, 820, 859 206, 061, 457	251, 852, 840 15, 442, 822	249, 611, 890 14, 561, 501 264, 172, 891	233, 996, 884 13, 832, 996 247, 829, 882	250, 015, 186 18, 867, 562	242, 305, 921	
93, 125, 776 9, 488, 892 104, 614, 166 2, 107, 969	79, 075, 777 8, 208, 389 87, 284, 166 6, 857, 159		103, 896, 745 12, 657, 748 116, 554, 493 4, 078, 661	123, 274, 823 14, 896, 827 188, 270, 650 8, 648, 858		116, 188, 870 14, 137, 166 180, 271, 036 2, 742, 071	122, 316, 486 14, 269, 982 136, 586, 412 2, 812, 516
-		1, 891, 974, 305					

## principal articles imported.

1878.	1879.	1880.	1881.	1882.	1883.	TIME.	DIMA
1, 20L, 498		1, 389, 086	1, 278, 801	1, 463, 760		96, 966	1, 140, 486
35, 247, 863		49, 762, 974	41, 432, 744	45, 061, 706	5	58, 702	42, 445, 782
481, 056, 512		507, 480, 576	517, 942, 208	325, 292, 000	41	64, 262	
42, 132, 847		53, 390, 110	52, 149, 533	87, 773, 261	4	80, 682	
81,661,776		114 005, 072	119, 663, 088	77, 445, 896	12	62, 768	
8, 584, 519		11, 785, 272	12, 944, 736	8, 675, 687	1	00, 589	13, 596, 286
200, 209, 904		260, 546, 160	229, 302, 192	242, 911, 074	26	48, 882	268, 953, 770
48, 376, 722,		59, 005, 425	52, 906, 694	65, 164, 932	5 2 1	61, 677	56, 196, 610
16, 769, 008,		18, 993, 744		20, 353, 112	2	70, 528	20, 215, 792
6, 391, 237		11, 605, 422	10, 957, 443	18, 887, 803		44, 845	9, 645, 643
<b>220, 512, 208</b>		198, 911, 664	206, 090, 080	189, 787, 776		39, 568	205, 889, 184
24, 010, 891		24, 744, 758	25, 491, 259	28, 084, 868	2	07, 946	19, 776, 798
142, 203, 824		173, 202, 512	137, 618, 896	152, 777, 408	15	17, 369	115, 870, 944
28, 763, 672		29, 578, 509	23, 140, 253	25, 279, 465	2	27, 081	11, 644, 560
93, 158, 770		108, 155, 578	106, 509, 585	119, 916, 065	11	07, 549	114, 797, 872
183, 836, 537		148, 821, 515	158, 243, 260	166, 496, 852	16	22, 719	
145, 879, 506		185, 876, 016	115, 788, 748	104, 108, 662		00, 646	
118, 125, 896		107, 890, 599	98, 075, 108	89, 708, 057		77, 154	
4, 473, 188	4 144 304	6, 033, 311	0, 460, 982	7, 471, 578	•-	25, 696	9, 047, 185
82, 971, 197°	41, 319, 472	42, 311, 690	44, 787, 864	51, 819, 458	5	95, 985	
240.200 040				794 311 100	1 79	<b>80 TO</b> 4	1,405,816,386
1000,000,010,1	174 007 440	1, 628, 666, 576	012 050 004	4 100, 111, 100	4 1 1 1		
1162, 805, 008	175, 887, 463	207, 872, 348	213, 056, 884	226, 741, 210	21	01, 421	177, 956, 886
7, 376, 659	6, 840, 297	9,001,127	7, 837, 198	8, 922, 029		89, 980	8, 362, 281
3, 131, 716	2, 057, 960,		2, 204, 214	2, 849, 640		45, 828	
14, 614, 881	11, 109, 950	12, 293, 629	12, 156, 260]	11, 741, 620	1	<b>86, 72</b> 0	9, 618, 913

## THE UNITED MENGINGE-Continued.

## Quantities and value of principal

			1			
Principal articles.		1879.	1874.	1875,	1876.	1877.
Drugs, dyes, tannies, and dye- woods	1-17					
woods	ioliara drede	27, 755, 598 5, 608, 950	26, 290, 681	25, 144, 498		22, 509, 440
Eggs		11, 421, 107	5, 671, 269 11, 825, 031	6, 176, 868 12, 440, 919	6, 975, 217 12, 786, 125	6, 259, 880 12, <b>620</b> , 612
Posthers ornamental	pounds .	212, 890	278, 706	296, 000	<b>324, 6</b> 18	304, 378
\$ 1	dollare pounda	2, <b>6</b> 12, 0 <b>64</b> 80, 535, 488	2, 980, 876 74, 077, 472	24, 465, 103 24, 090, 090	8, 788, <b>89</b> 6 108, 265, 826	4 248, 718 120, 041, 824
£ 184 { }	dollare	4, 875, 727	4,772,277	6, 155, 564	7, 095, 478	7, 971, 638
Flax, dressed and undressed, (	ons	122, 918 26, 754, 115	132, 949 26, 960, 625	99, 841 21, 443, 807	78, 697	124, 672 24, 665, 881
Fruit and nuts	dollara	20, 874, 068	24, 071, 598	25, 368, 743	17, 202, 089 27, 539, 256	20, 300, 331
Glass of all kinds	pounds . follars	90, 429, 926	106, 059, 186	110, 171, 824	119, 780, 432	127, 830, 416
Game 31	pounde	5, 571, 702, 28, 192, 640	7, 714, 852 26, 187, 552	8, 851, 725 29, 190, 960	9, 041, 247 29, 168, 944	9, 273, 692 82, 142, 000
\$ 1	dollars	4 999 700	4, 909, 898	6, 246, 860	4, 983, 347	4, 628, 611
Hair, goat's, or wool	pounds . dollars	B 384 456	7, 951, 658 5, 060, 391	6, 796, 217 4, 260, 368	5, 968, 478 8, 545, 540	
Home descent and endoused \$1	роилде	189, 70° 44°	190 000 014	151, 284, 896	131, 581, 208	14 \ 522, 704
	dollaru	11, 28 149, 90	1	10, 976, 470		
LIGOS, 18W	tollara	22, 97		185, 282, 884 20, 428, 583		128, 893, 888 17, 223, 682
Hides, tanned, curried, or dressed	ebnaoq dollars .	81,61		42, 184, 937	44, 768, 891	46, 917, 069
tuta Š1	tons	25	μ.	13, 676, 244 191, 831	14, 472, 706 214, 315	14, 355, 089 209, 393
	dollaro	17, 59	1	12, 516, 988	13, 630, 139	14, 289, 629
	ponuds   dollars .	70, 18 6, 74	1	60, 507, 828 7, 944, 977	62, 908, 4R8 7, 677, 444	
Leather			Į	11 003 011	1,011,333	
Leather manufactures	doltara . dollara	7.90		14, 478, 747	11 474 000	
Mest, preserved, otherwise { than by salting	pounds	29, 20		19, 193, 776 3, 878, 073		52, 528, 886
Copper, and copper ore { and regulus	dollars	12 24, 64	,	143, 129 <b>26</b> , 681, 560		26, 403, 415
410M VIV	tona dollars.		i	*****	753, 903 <b>8,</b> 886, 179	
Iron, in bars	tope	4,79	:	92, 959	86, 799	91, 817
Iron and steel manufact- (1	tons	8		6, 415, 487 64, 947	-,	4, 752, 940 94, 299
@F64				6, 914, 908	6, 923, 221	7, 470, 126
	tons dollars.	7,46	- 1	83, 018 8, 757, 536	83, 875 8, 504, 893	98, 610 9, 801, 669
Tin, in blocks, ingets, {		l .		18, 903	17, 053	15, 414
bar, or elaby	dollara	5, 67 28, 45		7, 071, 242 37, 418, 779		4, 672, 894 25, 520, 675
				8, 915, 499		
Pli-seed cake  Caper and pasteboard of all {     kinds (except paper hang-     ings)	pounds . dollars	78, 87 6, 17		85, 419, 040 5, 082, 232	93, 049, 920 5, 904, 229	99, 254, 624 5, 931, 630
Patrolanos Si	zallona	16,66		19, 440, 939	25, 201, 177	33, 866, 811
	dollare .	4,82 10,30		3, 767, 671 5, 204, 943	6, 956, 950 8, 460, 940	R, 633, 819 11, 414, 930
Potatoes lags and other paper material	dollara	6, 10	}	7, 312, 716	7, 017, 199	8, 398, 280
Rice	dollara	34 15, 77	!	376, 320 14, 609, 753	862, 274 14, 285, 671	370, 586
POOLS, OF SALE KINGS	BOLLATO	87, 46	1	46, 915, 986	46, 162, 480	48, 648, 634
Sik, raw	pounds .	6, 44 82, 84	J	4, 487, 487	6, 016, 967	4, 441, 891
ilk manafactures	dollare	48, 91		16, 738, 489 59, 005, 628	28, 043, 857 57, 424, 496	21, 686, 969 62, 504, 402
kins and furs	dollara	16.71	Í	18, 215, 839	17, 044, 807	16, 226, 344
pirits: brandy, rum, &c. { proof dollar	<b>и</b>	15, 09 16, 67	1	16, 087, 299 14, 611, 755	21, 090, 485 19, 798, 610	
Sign:						
**************************************	pounds . dollars	254, 59 18, 69	]	320, 486, 902 21, 083, 487	\$18, 198, 368 20, 014, 287	384, 143, 536 28, 159, 908
Unredned	bounds	1,424,93a,ouv .	1,004,004,002	1,821,647,682	1,748,567,968	1,860,585,728
	oopnda oopnda	R2, 942, 028 168, 765, 269	76, 970, 819 102, 782, 810	83, 241, 266, 197, 505, \$16	79, 382, 821 185, 586, 871	103, 913, 808
Fee	ponnda dollara	55, 286, 990	56, 049, 848	66, 615, 844	61, 708, 411	
Lopucoo :		81, 882, 782	76, 175, 215			
Unmanufactured	lollars	12, 727, 217	12, 867, 428	48, 943, 959 8, 553, 440	76, 814, 974 13, 004, 825	74, 862, 818 12, 122, 711
manufactured, olgare and {	ponnds	3, 834, 189	4, 682, 581	3, 344, 607	8, 418, 682	3, 762, 831
Wine	gallons .	6, 287, 995 21, 682, 356	6, 444, 365, 16, 284, 972	5, 791, 210 18, 429, 805	6, 390, 472 19, 930, 723	4, 705, 261 19, 566, 807
	dollars	49, 179, 204	33, 356, 440			

#### THE UNITED MINGSOM-Continued.

eritales imported-Continued.

2.079.					
\$1, \$80, \$89 6, \$80, 806 11, 300, 807 201, 709 4, 874, 104 311, 642, 870 7, 460, 890 97, 601, 600 97, 601, 600 10, 600, 647 6, 900, 641 20, 600, 601 1, 500, 134 1, 500, 804 101, 345, 825 10, 600, 600	4, 200, 200   4, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	74, 410 00, 730, 007  10, 100 0, 000, 000  11, 200 0, 677, 000  144, 304 0, 677, 306, 510  10, 320 11, 330, 540  10, 321 14, 370, 325  10, 320 14, 570, 325  10, 320 44, 513, 320  10, 341 7, 220, 740  10, 366 0, 12, 360, 376  10, 366 0, 14, 613, 320  110 440 14, 613, 340  110 440 14, 613, 340  110 440 14, 613, 340  110 440 14, 613, 340  110 440 14, 613, 340  111 440 14, 613, 340  117, 380 113, 383, 363  117, 380 113, 383, 363  117, 380 113, 383, 363  117, 380 113, 383, 363  118, 718 113, 383, 518	6, 700, 000 7, 83 11, 002, 107 200, 020 0, 516, 102 0, 516, 102 346, 220 110, 125 17, 200, 217 200, 017, 720 16, 101, 604 61, 002, 604 61, 004, 602 16, 604, 604 16, 604 16, 604, 604 16	77 898 B, 967, 166 77 978	61, 187, 840 6, 854, 669 14, 544, 669 754, 567 170 201, 569 2, 601, 766 20, 617, 160 271, 564, 530 24, 617, 160 4, 623, 660 6, 430, 913 14, 971, 160 4, 620 (2) 162, 678, 560 17, 161, 360 18, 661, 561 16, 661, 560 16, 661, 560
907, 075 16, 790, 970 301, 762, 760 6, 460, 068 86, 945, 757 31, 101, 562 66, 986, 987 6, 884, 887	300, 604 26, 601, 635 36, 717 728 103, 6 36, 710, 049 14, 7 43, 717 726 60, 2 36, 706, 607 11, 7 60, 601, 500 71, 6	180, abe 270, etg 191, 300 19, 811, 614 201, 344 00, 604, 604 701 619 14, 806, 107 144, 678 66, 866, 789 120, 611 10, 600, 320 140, 600 64, 667, 264 7, 654, 600	20, 978, 207 28, 10 74, 721, 126 00 00 0, 979, 510 10, 92 75, 217, 794 74, 71 21, 247, 348 22, 34 13, 848, 348 12, 67 68, 784, 972 88, 38	13, 067 EMA 550 16, 365 17, 616, 600 17 708 75, 380, 624 16, 400 7 400, 688 18, 300 76, 607, 671 2 800 30, 331, 465 7 200 30, 607, 049 18, 500 60, 516, 600 18, 673 6, 776, 672	816, 866 16, 736, 963 97 673, 650 7 607, 500 90, 666, 486 38, 636, 686 14, 666, 600 68, 116, 666 7, 665, 638
200, 110 28, 294, 607 1, 315, 220 6, 601 600 115, 140 6, 666, 121 116, 156 8, 200, 200 112, 150 6, 606, 121 18, 600 91, 600, 800 21, 600, 800 21, 600, 800	96, 901, 793 36, 6 1, 917 202 3, 6 0 106, 800 18, 6 107 116 4, 900, 800 6, 6 136, 700 6, 7 116, 806 7, 1 10, 720 6, 6 30, 800, 970 6, 6	MA, 461 MA, 327, 660 MA, 641 12, 744, 623 124, 660 13, 744, 627 124, 660 146, 647 126, 660 146, 647 126, 660 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 647 146, 648 14	35, 642, 688 36, 60 8, 679, 149 5, 87 14, 698, 692 125 36 6, 706, 701 6, 61 122, 397 11 13, 606, 606 12, 60 6, 147, 618 6, 34 34, 366 11, 67 21, 469, 344 36, 43	MA, 100 200, 800;  10, 000 30, 746, 611;  14, 802 31, 000, 618;  16, 202 11, 000, 801;  17 304 4, 000, 801;  18, 601 12, 000, 601;  18, 601 13, 000, 601;  18, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  19, 100 1, 040, 000;  10, 100 1, 040, 000;	
366, 886, 346 6, 796, 143 86, 366, 366 5, 891, 894 11, 866, 666 6, 862, 453 361, 807 64, 946, 607 61, 766, 886 37, 886, 886 81, 766, 766 16, 7761, 764 16, 7761, 764 13, 211, 960 30, 796, 602	60, 484, 386 114, 1 4, 844, 787 6, 2 61, 280, 380 80, 1 6, 710, 118 6, 2 12, 104, 801 12, 3 10, 104, 801 10, 1 10, 014, 860 14, 2 27, 851 138 8, 2 14, 651, 670 15, 1 61, 667, 670 15, 1 62, 867 887 65, 1 11, 630, 674 14, 1	131, 713 130, 800, 304, 304, 304, 304, 305, 307 200, 30, 400, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 140, 377, 364, 360, 362, 360, 362, 360, 362, 360, 360, 360, 360, 360, 360, 360, 360	196, 900, 800 180, 94 6, 944, 114 6, 35 90, 904, 196 76, 65 6, 964, 196 7, 76 46, 900 7, 76 464, 990 11, 46 464, 990 16, 37 65, 972, 944 67, 36 2, 977, 110 2, 17 12, 132, 907 12, 51 14, 614, 613 18, 66 11, 601, 774 51, 14	10 8141 348, 800, 882 80, 8141 7, 628, 3188 82, 973, 768 17 048 6, 834, 916 6, 834, 916 10, 804, 436 83, 870 14, 660, 631 10, 861 14, 835 14,	186, 101 006 6, 006, 450 76, 673, 611 12, 126, 970 2, 667, 106 16, 806, 806 612, 800 16, 672, 800 61, 604, 700 2, 661, 668
200, 044, 700 20, 124, 140	20, 500, 500° bok, 0 20, 600, 500° £1, 600, 307, 6770°1, 660, 67, 126, 210° 300, 64, 770, 300° 300, 64, 780, 300° 30, 6, 600, 270° 6, 6, 600, 277° 6, 1, 600, 277° 6, 16, 360, 607° 17,	100, 100	000, 604, 770 430, 97 10, 271, 261 12, 71 221, 800, 100 1, 301 0 101, 748, 180 00, 46 210, 606, 183 3,42, 36 63, 678, 276 56, 66 6, 601, 601 6, 77 4, 604, 606 6, 16 6, 797, 633 6, 14 16, 715, 813 15, 67	70, 040 477, 586, 178 17, 470 21, 040, 080 98, 25475, 197, 740, 680 10, 8031 78, 846, 471	52 OFF 500 52 OFF 500 53 OFF 500 65, 546, 676 312, 144, 880 51, 778, 680 76, 196, 176 4, 661, 209 14, 680, 760

## THE UNITED KINGDOM-Continued.

# Quantities and value of principal

Principal articles.		1878.	1874.	1875.	1876.	1877.
Drugs, dyes, tannics, and dye- woods	.dollars	27, 755, 598	<b>26, 990, 68</b> 1	25, 144, 498	<b>25, 685, 25</b> 1	<b>22, 509, 4</b> 40
Roge Sgreat hu	ındreds	5, 503, 950	5, 671, 269	6, 176, 863	6, 275, 217	<b>6, 259, 8</b> 80
	pounds .	212, 809	273, 705	296, 000		12, <b>020, 6</b> 12 <b>304,</b> 378
	dollars pounds.	2, <b>6</b> 12, 0 <b>6</b> 4 80, 535, 488	<b>2, 98</b> 0, 87 <b>6</b>	8, 466, 103	8, 783, 398	4 243, 713
Flax, dressed and undressed,	dollars	4, 875, 727	4, 772, 277	6, 155, 564	<b>7, 095, 4</b> 78	7, 971, 658
and tow	dollars	122, 948 <b>25, 754,</b> 115				124, 672 <b>24,</b> 665, 831
Fruit and nuta	.dollars pounds.	20, 874, 068 90, 429, 920		25, 868, 743	27, 539, 355	30, 399, 786
Glass of all kinds	dollara	5, 571, 762	7, 714, 852	8, 851, 725	9, 041, 247	9, 273, 692
Gums	dollara	4, 883, 790				82, 142, 000 4, 628, 611
Hair, goat's, or wool	pounds . dollars	6, 488, 182 8, 834, 456		6, 798, 217	5, 988, 473	8, 214, 990
Hemp, dressed and undressed	pounds .	<b>189,</b> 708, 648	138, 898, 916	151, 284, 896	131, 581, 208	144, 522, 704
Hides, raw	dollars pounds	11, 284, 220 149, <b>0</b> 09, 576		10, 976, 470 135, 232, 384	9, 516, 891 118, 224, 400	
Hides, tanned, curried, or	dollars	<b>22, 973, 832</b>	22, 319, 534	20, 428, 583	16, 045, 120	17, 223, 032
dressed	dollars	9, 591, 380	10, 880, 826	13, 676, 244	14, 472, 706	14, 855, 089
Tute	tons dollars		289, 129 17, 268, 450		214, 315 13, <b>63</b> 0, 139	
Lard	pounds dollars	70, 152, 080	41, 922, 736	60, 507, 828	62, 963, 488	66, 233, 568
Leather	s pounds .		4, 200, 101		1,011,414	7, 153, 089
Leather manufactures	dollars .dollars	7, 906, 112	9, 508, 336	14, 478, 747	11. 674. 882	10, 917, 251
Meat, preserved, otherwise than by salting	dollars	29, 203, 889 8, 563, 989	29, 704, 976	19, 193, 776	31, 703, 332	<b>52, 528, 336</b>
Copper, and copper ore and regulus	tons dollars	123, 302 24, 646, 917	129, 195 <b>24, 362</b> , 772	143, 129 <b>26, 6</b> 81, 560		
Iron ore	tons	, ,	21,002,112	20, 001, 000	753, 903	1, 279, 888
Iron, in bars	dollars. tons	77, 651	77, 652	92, 959	<b>8</b> , 886, 179 88, 799	
Iron and steel manufact	dollars	_, , ,	5, 143, 775	6, 415, 487	5, 328, 813	<b>4, 752, 94</b> 0
ures	dollars	4, 901, 971	6, 418, 071	<b>6</b> , 914, 803	<b>6, 92</b> 3, 221	7, 470, 126
Lead, pig and sheet	tons dollara					
Tin, in blocks, ingots, bar, or slabs	tons dollars		10, 324	18, 903	17, 053	15, 414
Oil, of all kinds	.dollars	28, 454, 017	24, 797, 261	27, 418, 779	24, 856, 164	26, 520, 675
Oil-seed cake Paper and pasteboard of all	pounds .	6, 456, 631 76, 378, 624	, ,	1		•
kinds (except paper hang- ings)	dollars					
Petroleum	gallone	16, 661, 340 4, 820, 347		, , ,	. , , ,	
Potatoes	.dollars	10, 303, 948	5, 029, 398	5, 204, 943		11, 414, 920
	tons	841, 258				
	dollars	15, 772, 281	<b>17, 971, 368</b>	14, 609, 753	14, 235, 671	16, 964, 408
Silk rew	pounds .	6, 445, 218	5, 911, 831	4, 487, 437	6, 016, 967	4, 441, 891
Silk manufactures	.dollars	48, 917, 834				
Skins and furs	.dollars	16, 712, 222	16, 948, 497	18, 215, 839	17, 044, 807	16, 226, 344
Spirits: brandy, rum, &c. { proceed to dollars	PL8	16, 576, 746		14, 611, 755	21, 090, 485 19, 798, 619	
ought:	pounds .	<b>254, 63</b> 0, 880	80 <b>4, 349, 472</b>	<b>320, 406, 902</b>	818, 198, <b>36</b> 8	884, 143, 536
Atounou	dollars	18, <b>6</b> 97, 737 1,424, <b>33</b> 2,800	<b>20, 276, 469</b>	21, 083, 487	20, 014, 287	28. 159. <b>2</b> 68
Unrefined		1 00 010 NOD	78 07A 91A	09 041 000	70 000 001	TAR AIR AAR
Tea	dollars	168, 765, 260 55, 266, 990	56, 049, 848	191, 505, 816 66, 615, 844	185, 536, 371 61, 708, 411	187, 515, 284 60, 656, 396
Tobacco:	· Spounds .	81, <b>86</b> 2, 788	<b>76</b> , 1 <b>75</b> , 215			
Omitantiaotured	dollars	12, 727, 217	12, 867, 423	8, 553, 440	13, 004, 825	12, 122, 711
Manufactured, eigars and anuff.	dollars	<b>3, 834, 189 6, 237, 995</b>				
Wine	gallons . dollars	21, 682, 356	18, 234, 972	18, 429, 305	19, 930, 723	19, 568, 807
	· · · · · · · · · · · · · · · · · · ·	1 10, 110, 203	00, 000, 220	1 00, 200, <b>2</b> 00	33, 933, 765	34, <b>695</b> , 375

### THE TRITION MANGEMENT Continued.

#### articles imported - Continued.

1073.	2,979.	1600.	2003	1803.	LREST	1894.	1,885.
1111	23/46	1200.				1000	
24,	10, 300, 748	36, 674, 410	90, 730, 997	48, 678, 187	30, 678, 161	20, 900, 971	41, 107, 000
11,	0, 880, 393 11, 187, 190	6, 226, 606 10, 864, 263	6, 804, 900	0, 768, 690 11, 862, 267	7, 854, 846 13, 277, 767	9, 300, 070	0, 380, 600 34, 344, 600
-	330, 884	228, 406	11, 986, 164 846, 774	MAG. 41.54	046, 144	14, 144, 884	751, 301
ıίζ	5, 870, 676 130, 836, 660	100, 644, 264	0, 437, 600 171, 864, 838	9, 516, 102 184, 792, 904			7, 204, 241 270, 303, 860
7,	8, 833, 971 94, 835	B, 10	11, 883, 644	10, 104, 626	11, 187, 836	0, 067, 168	9, 400, 780
36,	17, 471, 482	19, 79	16, 343, 400	110, 135 17, 866, 106	14, 070, 051	24, 447, 386	00, 424 15, 824, 200
37. 136.	35, 862, 464 336, 683, 663	90, 34 143, 91	\$1, 678, 664 148, 700, 820	36, 007, 787 186, 017, 728		83, 864, 048 101, 787, 136	36, 647, 160 176, 806, 150
8,	7, 650, 610	. A. W	8, 100, 611	8, 101, 319	T, 894, 695	7, 802, 477	7, 901, 000
<b>3</b> 0	30, 805, 804 4, 364, 438	#44 d	7, 239, 740	62, 002, 644 6, 844, 067	43, 634 306 E, 508, 300	37, 030, 210 8, 644 105	44, 823, 401 4, 450, 91
4, 10 107,	10, 672, 700 8, 618, 000	18, 84	10, 050, \$76.	14, 945, 675	12, 304, 623	4, 317, 800	14, 871, 146
18%	395, 522, 620	146, 21	9 022, 921; 106, 803, 300	7, 004, 9.17 181, 161, 600	101, 300, 004	148, 944, 849	4, 630 12; 162, 876, 201
7Ú 390,	8, 218, 510 113, 341, 800	180, 65	10, 540, 342 113, 386, 512	10, 478, 341 338, 354, 764	11, 822, 631 124, 017, 018	10, 050, 206 130, 307, 664	10, 751, 300 186, 800, 600
10,	14, 174, 804	10, 00	15, 615, 750	18, 190, 180	18, 461, 800		14, 000, 434
***							
36,	986, 524 15, 881, 435	19, 44	270, 010	302, 610	413, 667	\$94,040	819, 95, 18, 750, 36,
100,	84, 171, 729	101, 8	19, 311, 418 06, 464, 064	90, 975, 887 74, 721, 130	86 307, 702	75, 300, 424	97, 875, 801
A	10, 7 <b>10</b> , 345 48, 717, 768	14, 70 00, 24	15, 896, 107 61, 354, 667	9, 970, 519 73, 217, 794		7, 480, 886 76, 857, 971	7, 807, 504 80, 848, 454
36,	10, 788, 999	21, 97	28, 835, 789	25, 625, 186	36, 966, 999	36, 531, 999	26, 036, 036
11. 66,	0, 651, 300 00, 651, 270	11, 72 78, 44	10, 684, 256 <sup>4</sup> 64, 457, 984	13, 342, 348 66, 783, 078		10, 867, 940 50, 514, 980	19, 000, 001
4	4, 218, 681	0, 80	7, 866, 469	8, 226, 607			
	205, 821	20	208, 306	\$12,000	294, 106		254, 600
10. 0.	3A, 901, 789 1, 217 362	1 to -	23, 827, 540 2, 744, 513	35, 942, 403 3, 678, 146	26, 991, 995 8, 874, 992	26, 769, 611 2, 866, 510	30, 805, 066 B, 104, 866
6,	8, 100, 000 107, 114	18, 56 13	11, 418, 137, 124, 600	14, 000, 033 150, 900	18, 860, 226 197, 642	13, 000, 001 130, 344	9, 811, 900 134, 857
4,	4, 360, 900	5, 10 <sub>m</sub>	8, 543, 987	0, 780, 781	6, 010, 582	6, 000, 807	8, 000, 173
	125, 790 8, 867, 467	11, 70	196, 389	12, 030, 004	217, 304 13, 400, 561	367, 337 13, 664, 661	104, (6) 17, 478, 46
_	314, 860	7, 10	105, 200	98, 206	118,901		
4	7, 400, 845 16, 725		4, 764, 310 22, 747	6, 157, 615 38, 382	20, 179	30, 306	88, 111
8),	5, 366, 870 32, 866, 967	20, 62	0, 105, 074 22, 160, 730	12, 887, 484 21, 460, 244	11, 872, 70) 30, 494, 897	16, 021, 000. 21, 410, 118	
T,	7, 886, 886	9,44	8, 575, 486	7, 607, 487	A, 414, 214		9, 867, 74
108,	80, 484, 266 4, 044, 767	116, 12	120, 526, 104 6, 635, 346	134, 300, 300 5, 644, 118		162, 868, 892 7, 638, 186	185, 191, 001 4, 496, 461
80,	69, 200, 201	38, 79	10, 237, 388	AL THE STREET	76, 536, 906		78, 679, 611
11,	4,716,116 18,106,001	6.36~	8, 669, 270	8, 864, 156	10, 647 848	6, 874, 910 4, 900, 945	11, 194, 974
<b>4</b>	7, 584, 127	10, 10	0, 833, 948 9, 832, 144	10, 144, 600	7, 704, 362 11, 400, 804	10, 334, 450	10, 904, 634
16,	364, 915 36, 914, 500	10, 20,	674, 604 27, 854, 100	464, 020 16, 626, 293	486, 978 16, 432, 870		812, 60 10, 622, 80
44,	87, 851, 126	30, 27	60, 042, 984	45, 872, 846	47, 806, 251	40, 514, 010	41, 664, 78
ri.	8, 886, 423 16, 451, 970	18, 31	3, 004, 500 11, 866, 608	3, 977, 119 18, 183, 907	8, 178, 800 12, 816, 100		7, 118, 99
66. 16. 15.	61, 947, 987	65, Bb.,	£7, 900, 210	84, 830, 874	61, 146, 251	83, 842, 866	46, 905, 811
13.	11, 680, 674 18, 646, 777	14, 10	12, 230, 00% 6, 662, 236	14, 614, 618 11, 601, 706	0, 604, 977	11, 873, 106	14, 474, 634
16,	34, 989, 436	10, 10	8, 764, 889	u, 861, 966	9, 907, 187	10, 000, 970	10, 370, 814
300.	886, 146, 200	840, 04	814, 801, 888	300, 006, 775	428, 279, 000	617, 500, 776	H-1 12
,679	, and 30% s76	1, 000, 100,	19, 618, 809 3, 000, 954, 806	7, 221, 860, 160 10, 371, 301	1,201,000,124	2,137,740,000	2,174,664,66
77.	87, 186, 816, 384, 876, 478	80, 710, 700 200, 871, 870	90, 434, 904	301, 74 <b>0</b> , 180		78, 900, 471	85, 548, 871 211, 148, 821
204. 40,	84, 734, 350	86, 661, 214	84, 478, 801	83, 673, 270			
<b>80</b> .	89, 661, 220	88, 671, 873	46, 195, 697	36, 676, 276	30, 678, 180	80, 890, 407	70, 125, 80
15	8, 604, 375 8, 601, 860	8, 400, 030 8, 501, 630	6, 000, 504 2, 004, 500	6, 001, 001 6, 006, \$20	8, 723, 806 8, 121, 174	8, 535, 000 8, 105, Mg	13, 664, 17( 4, 367, 361
4476	8, 946, 977	A 488, 443.	B, 911, 788	4,797,438	8, 180, 886	4, 000, 427	6, 015, 221
2	33, 362, 867 36, 675, 118,	17, 20%, 40% 21, 42%, 46%	14, 297, 833 37, 484, 860	16, 715, 513 36, 600, 500		33, 244, 271 36, 986, 386	

#### THE UNITED MINGDOM-Continued.

#### Quantities and value of principal

Principal articles.	nnis.	OWIL.	1875.	1876.	1677.
Wood and timber	818, 496, 742 92, 301, 687 36, 869, 271	99, 914, 718 27, 216, 943	860, 903, 270 111, 225, 739 28, 185, 444	396, 568, 323 112, 968, 480 32, 857, 690	

Quantities and value of prin-

<sup>\*</sup> For 1884, and subsequent years, mixed materials in which cotton predominates are included under the heading of "woolen and worsted stuffs." ! Sail cloth included with "all other manufactures."

### THE UNITED KINGDOM--Continued.

articles imported—Continued.

1878.	1879.	1880.	1881.	1892.	1888.	1884.	1965.
69, 143, 949 895, #74, 457 110, 745, 403	412, 784, 816	460, 900, 907	447, 521, 441	85, 679, 567 484, 930, 824 120, 268, 096		518, 637, 800	501, 130, 837
86, 584, 826	34, 290, 883	48, 204, 904	85, 714, 069	37, 632, 763	40, 121, 788	42, 845, 885	45, 556, 990
1,702,225,806	1, 764, 140, 513	1, 998, 575, 686	1, 929, 829, 297	2, 007, <b>275, 29</b> 5	3,074, <del>6</del> 98,074	1,895,490,246	1,802,904,261

cipal articles-exported.

1,667,298,400° 90,267,530 25,183,961° 8,719,893° 6,225,174, 3,673,896° 19,252,2671 16,027,974 889,506 5,256,809	1, 057, 726, 500 83, 849, 949 26, 050, 601 8, 747, 786 0, 837, 873 3, 803, 549 16, 946, 431 11, 717, 397 779, 493 4, 362, 613	108, 754, 018 81, 703, 802 10, 038, 417 8, 647, 208 4, 478, 528 18, 831, 149 17, 111, 467 922, 628	1, 896, 437, 500 103, 200, 618 36, 544, 118 10, 709, 353 7, 902, 773 5, 127, 277 20, 368, 284 18, 860, 841 1, 025, 931 5, 459, 627	1, 349, 874, 700 102, 071, 391 41, 093, 074 11, 222, 411 6, 829, 172 5, 276, 400 20, 696, 179 10, 960, 628 1, 205, 612 6, 400, 756	101, 239, 442 88, 634, 161 11, 839, 192 9, 146, 996 5, 270, 849 18, 835, 672 18, 256, 842 1, 057, 828	96, 296, 378 35, 372, 718 9, 504, 673 10, 280, 839 6, 211, 597 13, 860, 193 15, 273, 375 1, 074, 794	23, 937, 546 8, 933, 650 9, 997, 272 4, 695, 784 11, 231, 252 18, 860, 234 1, 041, 544
2, 045, 695 121, 961, 200 7, 721, 0-9 17, 030, 320 8, 637, 639 9, 744, 240 18, 080, 320 5, 893, 301	1, 720, 056 164, 054, 600 9, 540, 919 24, 527, 680 7, 324, 637 10, 009, 787 24, 637, 680 5, 229, 200	1, 839, 087 183, 202, 400 10, 961, 745 16, 463, 776 5, 601, 928 10, 172, 991, 16, 463, 786 4, 754, 625	2, 051, 654 204, 296, 200 11, 483, 757 20, 312, 320 7, 914, 092 11, 973, 679 20, 309, 320 5, 140, 903	2, 872, 790 212, 483, 600, 11, 018, 574 18, 536, 336 7, 029, 256 13, 457, 787 18, 536, 836 5, 041, 682	12, 157, 727; 19, 625, 535 7, 957, 068 11, 633, 290 17, 678, 300	11, 935, 590 19, 878, 208 8, 153, 549 10, 176, 781 19, 533, 700	215, 078, 500 9, 255, 884 20, 606, 544 8, 269, 200 11, 214, 986 16, 600, 200
157, 219, 360 22, 954, 183 8, 644, 828 11, 701, 762 24, 738, 519 4, 399, 345	156, 220, 700 22, 427, 432 4, 171, 965 10, 683, 192 24, 693, 939 4, 980, 684	161, 677, 200 24, 149, 452 4, 213, 600 13, 542, 098 31, 478, 546 5, 484, 027	170, 704, 700 24, 298, 479 4, 114, 835 15, 391, 251 33, 015, 370 5, 871, 027	172, 761, 600 24, 281, 624 4, 725, 752 17, 282, 675 40, 717, 804 9, 901, 536	20, 88\$, 567 44, 40°, 207 10, 507, 456	20, 168, 062 5, 006, 971 20, 805, 872 43, 228, 247 10, 218, 586	18, 761, 968 6, 849, 078 18, 103, 528 35, 779, 806 8, 393, 230
3, 779, 841 30, 249 1, 033, 850 360, 783	263, 367 1, 870, 248, 256, 973	3, 958, 042 273, 247 1, 828, 224 340, 717	138, 571 1, 600, 233	4, 545, 524 147, 866 1, 969, 041 350, 784	4, 484, 074 109, 172 1, 741, 784 842, 968	76, 818 1, 421, 925	1, 079, 024

#### THE UNITED MANGEOM-Continued.

#### Quantities and value of principal

Articles.	1979.	1674.	1875.	3876.	3877.
PRODUCE OF THE UNITED ELEGDOM—con- tinued.			1		
Motals (quantities)—Continued.		1			
Iron, railroad, of all sorts tons	<b>879, 215</b>	874, 885	011, 400	480, 003	506, 048
hoops, sheets, and boiler platestons	225, 758	180, 041	220, 021	218, 030	224, 133
tinned plates tops	286, 116	387, 715	154, 967	148, 473	171, 613
wire	32, 976 315, 848	41, 005 30R, 117	48, 407 200, 648	49, 900 979, 840	57, 22a 284, 666
steel, unwrought tons	44, 146	\$5, 213	33, 441	26, 879	27, 207
steel manufactures tons	11,720	11, 263	12, 540	11, 117	12, 670
Total from and steeltops	3, \$12, 748			2, 484, 050	2, 692, 866
Osppertoustous	14, 849 34, 660		15,400	18, 840 26, 635	12,667
Metals (value):	'	27, 516	36,719	24, 840	81, 402
Iron, old	1, 942, 477	1, 192, 850	489, 788	485, 448	488, 870
pig and puddleddoliars bar, angle, bolt, red.doliars	94, 502, 811 38, 254, 063	17, 854, 847 14, 845, 000	16, 766, 004 13, 347, \$08		12, 369, 363 8, 376, 581
ratireed, of all sorts deliars	80, 63E, 80A	44, 941, 827			
hoops, sheets, and boiler plates	18, 000, 241	14, 460, 485	16, 056, 150	18, 867, 744	13, 279, 041
tiuned platesdollars	19, 311, 784			13, 808, 744	14, 740, 002
Wiredollare	3, 365, 404	3, 741, 845	8, 790, 950	8, 796, 879	2, 654, 071
cast, wrought, &cdollars steel, unwroughtdollars	7, 100, 485				
steel manufacturesdellers	8, 543, 119				
Total fron and steeldollars		·	110, 188, 489	100, 841, 074	87, 753, 001
Copper dollars	5, 500, 204	4. 580, 141	18, 648	4, 779, 572	4, 259, 100
manufactures dollars	10 NR3 R21	10, 661, 375	10, 843	9, 488, 060	10, 695, 419
Oll, seed	11, 157, 072 7 149, 405			18, 297, 304 9, 253, 877	
Painters' colors and materials dollars	4, 922, 849				
Paper and paper hangings { pounds dollars	42, 076, 656	\$6, 020, 014	12, 648	30, 074, 464	42, 363, 384
Provisions of all kindsdollars	6, 661, 542 8, 780, 293				5, 166, 902 3, 764, 861
Balt} tons		927, 483	27, 616	970, 200	933, 745
dollara	8, 934, 808 3, 983, 712	8, 219, 230 4, 025, 450	35, 062	2, 566, 800 8, 843, 797	3, 248, 118 4, 856, 007
filk, broad piece goeds { yards { dollars	2, 507, 378		56, 600 36, 860	3, 149, 608	3, 408, 843
Bilk, other manufacturesdollars	8, 562, 628	4, 937, 891	13, 908	8, 572, 977	4, 678, 201
Ekine and fure	4, 614, 430			4, 130, 976 28, 543, 536	
Scap	1, 181, 208	1, \$49, 758	10, 062	1, 522, 191	1, 776, 787
Spirite gallons dollars	1, 685, 658 1, 025, 285			1, 308, 456 1, 842, 904	
Sintienery, other than paper. dollars	3, 275, 251	3, 231, 282	39, 704	3, 207, 163	1, 818, <b>6</b> 31 <b>2</b> , 191, 183
Bugar, refined pounds	78, 039, 808	103, 302, 304	72, 456	121, 435, 024	125, 832, 802
Telegraph wire and apparatus dollars	5, 082, 350 11, 422, 108			6, 628, 593 8, 969, 166	
West shoes and lambe! Spounds	7, 034, 735	10, 077, 619	36, 528	8, 817, 249	9, 548, 999
Contract					
worten and worsted yard dollars	20, 212, 376				
Woolen manufactures:		1			
Cloths, coatings, staffs, ; yards	88, 633, 823 82, 074, 226		42,056,854 38,291,967		
Worsted, coatings, and { yards	382, 884, 692	261, 185, 081	251, 845, 549	221, 861, 900	194, 777, 034
stuffe* dollars	80, \$88, 077				87, 545, 611
Carpets and druggets { yards dollars	7, 763, 277				
All other woolen manu- facturesdollars.	18, 974, 823				' '
Total emorts, produce of the United	1 940 440 451	1 104 040 400	1 000044 500	875 155 101	***
		11 204) 205, 446	1,000004,300	010, 103, 131	
FOREIGN AND COLONIAL PRODUCE.				1	1
Arms and ammunitiondollars	623, 774 44, 538, 848				414, 25( 48, 168, 96)
Bason and hame	4, 823, 271	2, 883, 739	2, 579, 605	4, 348, 538	4, 184, 266
		n kan nee			
Butter and butterine } pounds	2, 492, 672	2, 599, 968			
Butter and butterine   pounds   dollars	2, 492, 672 582, 164 4, 092, 240	753, 679	906, 837	794, 600	1, 163, 168
Occutekoue	2, 492, 672 582, 164 6, 092, 240 2, 744, 665	7a3, 879 5, 981, 360	906, 837 7, 812, 764 8, 007, 841	784, 60u 7, 801 932	1, 163, 166 A, 906, 126 3, 280, 750

#### THE UNITED MINGROUND.

articles exported-Continued.

167E.	2870.	1990.	1861.	1869.	1888.	1384.	1991.
402, 119	810, 648	774, 040	916, 206	1, 040, 363	1, 007, 704	815, <b>96</b> 0	785, 7
216, 144 173, 868	215, 684 230, 636	340, 977 311, 781	941, 821 273, 800	863, 711 294, 850	189, 318 291, 710	391, 604 823, 258	954, 0 955/3
48, 921	41, 581	86, 251	84,144	97, 052	70, 134	50, 834 421, 581	<b>\$0,</b> 6
280, 544 27, 027	291, 203 24, 788	\$06, 800 77, 842	187, 519	367, 653 193, 006	898, 642 81, 907	69, 761	382, 7 66, 8
13, 023	19, 475	15, 975		20, 796	16, 231	13, 302	14, 1
2, 573, 478	3, 229, 486	4, 349, 283	4, 274, 253	4, 876, 000		3, 917, 624	8, 456, 7
19, 48; 30, 283	18, 771 85, 740	12, 306 37, 583	30, 844 34, 486	14, 246 37, 907	18, 961 46, 119	20, 029 64, 819	21, 6 47, 6
901, 523 13, 861, 867	8, 894, 883 13, 310, 890	5, 653, 166		2, 464, 802 34, 116, 219	1, 643, 650 10, 816, 436	1, 063, 821 14, 313, 784	1, <b>276</b> , 4 10, 171, 6
7, 806, 219	7, 465, 611	25, <b>361, 6</b> 66 11, 549, 202	9,783,828	11, 170, 670	9, 886, 482	9, 489, 848	7, 875, (
LS, 906, 868	13, 660, 672	24, 651, 636		31, 041, 684	30, 230, 323	30, 120, 426	18, 979,
3, 300, 791 3, 279, 357	10, 246, 464 17, 048, 768	10, 441, 963 21, 650, 751	30, 331, 821	18, 106, 897 32, 560, 738	18, 902, 902 28, 968, 259	17, 947, 985 23, 979, 946	20, 000, (
2, 064, 8+6 17, 968, 821	2, 415, 785 16, 686, 966	4, 023, 667 18, 429, 742	10, 266, 342	4, 466, 444 23, 112, 320	4, 504, 233 23, 436, 968	2, 360, 070 23, 363, 001	3, 349, 1
3, 668, 655 3, 581, 042	3, 976, 913 8, 342, 052	6, 172, 132		8, 896, 887 4, 560, 715	6, 787, 282 1, 821, 930	5, 479, 558 1, 955, 567	4, 993, ( 1, 998,
99, 301, 109	M, 36A, 684	137, 963, 306	<del></del>		198, 948, 451		
5, 809, 753	5, 184, 457	5, 144, 806		18, 911	75, 145	6, 118, 236	4, 379,
11, 142, 469	11, 322, 565	11, 652, 700	1,888	14, 469	14, 174	14, 418, 006	15,000
19, 906, 800 9, 421, 820	12, 605, 806 6, 748, 742	14, 508, 000 7, 879, 698	96, 4001	11, 900 18, 166	94, 760 95, 707	16, 058, 100 7, 124, 884	16, 678, 7, 458,
5, 804, 297 64, 200, 84H	5, 010, 242 44, 012, 833	5, 655, <b>0</b> 21	(1, 056)	14, <b>66</b> 4 10, 372	18, 957 34, 423	6, 286, 257	84, 851, 4
8, 177, 547	6, 183, 07M	6, 970, egs	19, 100	姓, 140	97, 767	7, 150, 917	7, 074, 1
4, 961, 206 915, 217	4, 450, 847 1, 974, 801	5, 030, 866 1, 177, 388	14, 978	16, 190 70, 897	H, 831	8, 787, 398 1, 651, 009	1, 014,
4, 819, 470	2, <b>002,</b> 472 4, 724, 010	2, 935, 941 8, 218, 510	17, 178 11, 000	13, 966 13, 340	94, 744 97, 800	3, 973, 070 6, 800, 860	3, 267, I 6, 016, I
3, 807, 860 6, 432, 892	8, 860, 827 4, 367, 868	4, 921, 819	16, 900	10, 340 58, 000 17, 618	97, 471 94, 443		5, 486, 4, 679,
6, 915, 654	5, 707, 476	7, 868, 005	lii. 141	78, 481	14, 976	6, 395, 982	4, 006,
97, 586, 204 1, 986, 190	42, 907, 929 2, 102, 517		L 2015	97, 344 18, 100	NL, 047	2, 66L, 399	3, 295,
1, 447, 711	1, <b>602</b> , 493 2, 189, 208	2, 060, 199	13, 290	30, 878	\$3 <b>, 356</b> \$4, 870	1, 635, 898 2, 944, 430	1, 760, 4, 230,
3, 147, 422	3, 236, 736	8, 517, 533	11, 376	10,770	<b>96,</b> 374	4, 118, 607	4, 149,
16, 709, 600 5, 652, 674	100, 879, 216 4, 719, 450		16, 1000	79, 344 E. 450	10, 275	5, 400, 728	3, 704,
3, 625, 927 6, 618, 200	12, 150, 000 15, 700, 900		10, 602	08, 946 ,44, 400	(6, 100 (3, 100	12, 194, 484 58, 128, 800	
2, 662, 420	4, 674, 611	5, 769, 380	10,619	4, 351, 966	99, 790	4, 015, 285	4, 387,
\$1, 169, 600 10, 997, 861	33, 376, 500 18, 961, 158						
48, 529, 800 30, 147, 100	44, 264, 900 26, 866, 457						
88, 483, 800	17 <b>4,</b> 646, 100	180, 940, 790	192, 106, 100	146, 805, 600	143, 404, 700	187, 667, 100	157, 888,
84, 173, 967 6, 626, 300	\$3, 638, 646 6, 688, 000	K, 105, 6V	8, 711, 200	11, \$18, 700	10, 699, 300	11, 540, 800	11,002,
4, 984, 436 10, 897, 406	8, 906, 713 8, 674, 462	' ''		' '			
07, 945, 793			1, 187, 350, 228				
198, 879 54, 641, 728	819, 161 48, 777, 468		274, 000 31, 765, 440			896, 726 30, 316, 128	
3, 726, 560	2, 404, 504	3, 794, 494	3, 684, 998	1, 469, 100	2, 410, 815	2, 040, 184	3, 197,
4, 512, 719 1, 032, 128	4, 700, 626 978, LAS	1, 065, 988	1, 442, 555	4, 004, 208 1, 250, 892	1, 306, 941	1, 718, 141	1, 997,
9, 786, 448 3, 864, 860	10, 161, 760		10, 630, 266				

THE UNITED KINGDOM-Continued.

Quantities and value of principal

### THE UNITED BENGDOM-Continued.

erticles esported—Continued.

3.070.	LEAVE.	1890.	3801.	1990.	1900.	3894,	1866.
14.895.99s	144, 794, 790	133, 107, 460		118, 880, 976			
2, 994, 541 8, 422, 865	28, 884, 947 8, 078, 747	26, 654, 648 4, 676, 701	19, 201, 979 2, 970, 886	4, 484, 163	16, 675, 967 2, 663, 166	18, 621, 011 1, 584, 223	
10, 207, 900	188, 201, 440 20, 988, 540	234, 577, 800		SEAL SEAL THE	347, 221, 606	261, 661, 648	200, 326,
1, 847, 671 1, 847, 660	3, 005, 720	36, 561, 809 8, 282, 770		90, 591, 819 2, 564, 788	25, 634, 900 2, 000, 028	30, 144, 500 1, 917, 044	21, 601, 2, 748,
4, 229, 050	15, 868, 643		17, 752, 609	18, 806, 696	17, 188, 618		15, 344,
1, 844, 163 8, 807, 884	2, 366, 949 15, 871, 856	8, 212, 125 17, 227, 904	8, 814, 000 25, 002, 552	4, 975, 991 36, 457, 834		3, 960, 978 24, 655, 804	2, 640, 23, 371,
1, 184, 601	L, 504, 225	1, 480, 670		2, 867, 978	1, 487, 651		1, 605,
2, 204, 110	2, 204, 003	8, 583, 191	8, 507, 618	8, 284, 602	8, 294, 341	8, 665, 354	8, 395,
8, 188, T78	15, 400, 520	18, 227, 004	19, 460, 890	20, 781, 152			22, 441,
2, 964, 402 6, 230, 940	2, 230, 639 17, 511, 424	3, 078, 830 80, 632, 700	8, 256, 183 20, 476, 820	2, 193, 000 22, 811, 806	3, 517, 617 25, 708, 440		2, 209, 43, 516,
1, 404, 280	1,014,775		1, 963, 074	1, 602, 558	1, 751, 976	2, 443, 776	2, 891,
ic, 064, 928 6, 166, 875	40, 677, 206 6, 857, 806		43, 665, 552 6, 667, 163	47, 432, 448 6, 663, 771	01, 803, 929 6, 994, 742		
12, 511, 664	125, 210, 736	130, 912, 784	145, 877, 282,	101, 417, 700	308, 817, 804	105, 341, 104	220, 587,
3, 412, 575 3, 783, <b>96</b> 2	8, 922, 665 14, 663, 446	4, 549, 763 15, 566, 177	8, 278, 665 13, 414, 660	6, 178, 061 13, 850, 166	5, 749, 792 13, 850, 941		5, 805, 14, 863,
6, 005, 048	6, 127, 000	6, 716, 101	8, 178, 606	6, 234, 629	8, 184, 677		5, 550,
13, 250 4, 165, 250	19, 984 8, 864, 425	16, 663 4, 854, 567	13, 448, 4, 200, 266	14, 260 4, 254, 661	12, 661 3, 791, 641	13, 042 8, 166, 617	
47, 665	85, 861	77, 701	00, 534	81, 872	76, 825	70, \$74	AS,
2, 805, 863 25, 866	2, 971, 925 31, 874	8, 215, 974 64, 291	2, 800, 819 73, 886	8, 429, 637 77, 138	8, 065, 697 84, 113	3, 811, 283 54, 977	3, 900, 63,
1, 004, 003	1, 907, 661	3, 418, 600	4, 501, 515	4, 500, 101	4, 065, 767	8, 814, 293	2, 985,
7, 302 2, 028, 574		9, 751 8, 748, 379	11, 167 4, 447, 789	13, 882 4, 362, 799	15, 007 0, 400, 200	10, 463 6, 010, 440	13, 5, 974,
627, 218	986, 830 4, 848, 383	1, 658, 800	1, 191, 065	1, 000, 003	2,667	3, 578, 874	73,160.
3, 994, 483 2, 180, 441	1, 161, 263	8, 121, 82a 1, 206, 129	8, 130, 372 1, 963, 187	4, 931, 864 3, 932, 777,	57, 038 16, 345	4, 855, 840 8, 864, 814	4, 134, 0/001;
965, 177 8, 878, 350	878, 681	[34, 537]	775, 768	1, 176, 800	23, 751	1, 388, 970	1, 206,
7, 572, 000	6, 183, 439	8, 404, 161	9, 864, 123 8, 481, 977	3, 663, 600 3, 641, 473	10, 855 15, 130	8, 117, 897 1, 265, 800	3, 903, 1, 211,
1, 079, 500	1, 207, 689 8, 386, 962	1, 258, 858	1, 362, 184	1, 657, 780	26, 813	3, 133, 849	8, 187,
2, 175, 781 2, 833, 906	8, 035, 418	3, 514, 803 8, 607, 808	8, 705, 667 2, 661, 123	4, 344, 763 3, 638, 296	13, 007 11, 300	4, 838, 230 2, 645, 143	4,748, 2,172,
2, 310, 240	8, 827, 861	2, 420, 848	2, 407, 911	2, 365, 134	16, 203	3, 311, POS	1, 581,
2, 501, 014 8, 065, 000	3, 906, 714 21, 343, 486		** *18, 117 77, 840	2, 301, 661 24, 511, 424	16, 721 17, 056	21, 860, 739 21, 860, 632	2, 611, 18, 400,
496, 996	1, 486, 803	1, 642, 990	30, 266	2, 084, 316	16, 979	1, 645, 416	1, 112,
id, 229, 778 12, 627, 600	36, 521, 432 11, 347, 106		14, 726 31, 421	86, 654, 177 11, 487, 508	32, 234 38, 752	45, 525, 633 12, 089, 664	42, <b>6</b> 57, 10, <b>866</b> ,
6, 534, 365	9, 794, 986	0, 131, 310	58, 274	8, 263, 414	17, 672	8, 694, 146.	8, 874,
2, 800, 204 1, 354, 234	2, 023, 735 1, 263, 551	2, 075, 990 1, 451, 400	36, 046 71, 978	2, 063, 234 3, 206, 484	74, 603. 15, 663	1, <b>396</b> , 162 1, 313, 671	1, 204
2, 112, 848	2, 456, 100	2, 940, 290	10, 808	2, 961, 838	37, 047	2, 528, 223	3, 430,
1, 201, 800 10, 295, 166	1, 031, 051 <b>343</b> , <b>323</b> , 500	1, 179, 000 327, 279, 070	74, 673 97, 348	1, 807, 074 262, 863, 051	£1, 006 1 \$1, 350	1, 367, 628 276, 198, 151	1, 963, 267, 430,
60, 427, 001	66, 432, 747	66, 964, 532	17, 772	74, 101, 601	\$1, <b>47</b> 0	74, 291, 500.	<b>68</b> , 070,
1,723, 677	2, 001, 105	3, 347, 898	78, 143	2, 235, 978	13, 402	2, 006, 850	2, 001,
ME, 864, 429 N7, 345, 722	272, 242, 806 886, 644, 344	307, 908, 527 1, 664, 973, 766	200, 679, 971 L, 187, 260, 487	320, 840, 655 1, 178, 580, 467	prikspor,721 1,160,425,489	305,889,777 1,183,603,676	200,458, 1,006,806,

### BRITISH NORTH AMERICA.

Value of imports, for consumption, from principal

Whence imported.	1873.	1874.	1875.	1876.	1877.
Dominion of Canada.					
Continent of America: United States British West Indies Spanish West Indies	Dollars. 48, 332, 214 975, 888 1, 157, 652	Dollars. 54, 961, 594 931, 176 1, 856, 912	Dollars. 51, 440, 670 1, 036, 152 1, 130, 436	Dollars. 46, 645, 794 879, 660 639, 090	Dollars. 51, 953, 886 648, 810 570, 564
South America.  Newfoundland, &c.  All other West Indies	421, 362	479, 682 1, 102, 248 48, 600	282, 366 915, 624 55, 404	291, 114 784, 404 117, 612	4, 860 649, 782
Total from America	52, 787, 376	58, 880, 212	54, 860, 652	49, 857, 674	53, 864, 838
Continent of Europe: United Kingdom Germany France		63, 864, 774 969, 084 2, 331, 342	61, 101, 378 757, 654 1, 965, 884	41, 243, 437 488, 430 1, 863, 810	40, 066, 812 875, 192 1, 428, 344
SpainBelgiumHolland	181, 056 346, 032 219, 186	468, 644 297, 432 259, 524	388, 000 281, 394 234, 738	441, 280 365, 472 270, 216	281, 894 255, 150 205, 092
Switserland	121, 986 52, 974 75, 816	141, 426 46, 656 101, 574	117, 612 44, 712 67, 068	56, 862 40, 824 72, 414	69, 984 29, 646 46, 170
Total from Europe	78, 842, 354	68, 475, 456	64, 957, 940	44, 842, 745	42, 757, 784
Continent of Asia: China and Japan	1, 663, 990	1, 203, 642	665, 820	960, 836	423, 792
Continent of Africa	128, 304		878, 594	294, 032	98, 658
Australacia	898, 174		408	49	
All other	273, 326		250, 583	462, 549	859, 164
Total for Dominion (entered for consumption)	129, 108, 524	128, 559, 320	121, 113, 992	<b>*95, 917, 383</b>	97, 504, 286
Entered for re-export †	502, 899	1, 256, 987	3, 494, 911		<b>2</b> , 065, 802
TOTAL IMPORTS FOR DOMINION	1 <b>29</b> , 611, 423	129, 816, 257	124, 608, 908	*94, 375, 504	100, 569, 588
Newfoundland.					
Continent of America: United States Dominion of Canada British West Indies All other	1, 726, 272 1, 837, 080 225, 990 287, 226	1, 965, 884 1, 962, 468 249, 804 253, 206	1, 605, 958 2, 349, 810 318, 956 296, 460	2, 190, 402 2, 075, 706 243, 972 140, 368	1, 941, 570 2, 160, 270 285, 768 172, 533
Total from America	4, 076, 568	4, 430, 862	4, 586, 184	4, 650, 448	4, 560, 141
Continent of Europe: United KingdomAll other	2, 499, 498 275, 120	2, 694, 870 820, 891	2, 602, 044 281, 880	2, 491, 236 218, 214	2, 707, 020 188, 516
Total from Burope	2, 874, 618	3, 015, 761	2, 883, 924	2, 709, 450	2, 895, 536
Not specified	•••••		•••••		
Total from Newfoundland	6, 851, 186	7, 446, 628	7, 450, 108	‡ <b>7, 295, 678</b>	7, 455, 677
Total for British North Ambrica	186, 462, 609	137, 262, 880	132, 059, 011	101, 671, 182	108 025 215

<sup>\*</sup>As in the official returns.

i Nearly all American products.

## BRITISH NORTH AMERICA.

countries, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
Dollars. 49, 289, 576 858, 630 422, 334	Dollara. 44, 285, 778 658, 044 583, 151	Dollars. 29, 718, 524 1, 223, 748 1, 733, 076	Dollars. 87, 162, 962 1, 912, 410 1, 923, 588	Dollars. 48, 892, 572 1, 872, 072 2, 162, 700	Dollars. 56, 732, 724 2, 508, 732 1, 875, 474	Dollars. 50, 423, 472 1, 961, 982 1, 606, 716	<b>Dollars.</b> 47, 086, 596 1, 280, 124 1, 690, 306
15, 552 680, 886 38, 880	4, 374 647, 352 26, 730	287, 226 589, 032 25, 272	645, 408 • 660, 474 27, 216	1, 390, 932 499, 608 88, 880	1, 167, 372 775, 656 84, 922	1, 476, 954 779, 544 33, 048	1, 339, 416 850, 406 28, 003
51, 255, 858	46, 205, 429	83, 571, 878	42, 332, 058	54, 856, 764	63, 094, 950	56, 281, 716	51, 774, 858
37, 899, 252 404, 352 1, 402, 110	31, 380, 534 446, 634 1, 551, 312	34, 891, 434 455, 383 1, 129, 950	44, 128, 400 945, 736 1, 651, 914	51, 229, 746 1, 498, 338 2, 123, 884	52, 703. 298 1, 831, 784 2, 345, 436	43, 358, 490 1, 973, 160 1, 767, 582	41, 349, 852 2, 118, 474 1, 932, 822
280, 908 259, 038 215, 784	347, 976 181, 278 203, 148	230, 508 151, 146 173, 502	414, 038 417, 960 227, 934	468, 018 509, 328 251, 262	592, 434 400, 390 300, 834	503, 982 458, 298 327, 644	848, 948 477, 252 808, 124
61, 722 53, 946 42, 282	95, 742 83, 874 25, 758	95, 256 465, 102 36, 450	99, 630 89, 910 57, 834	271, 674 94, 284 52, 488	340, 200 103, 948 64, 152	242, 028 75, 330 68, 040	217, 242 107, 892 60, 264
40, 619, 394	34, 266, 256	37, 637, 820	48, 033, 376	56, 498, 472	58, 684, 426	48, 774, 754	46, 920, 870
388, 314	454, 410	904, 932	1, 428, 840	1, 548, 396	1, 966, 008	1, 907, 064	2, 577, 744
45, 684	107, 892	188, 510	140, 454	207, 522	113, 238	187, 030	155,04
••••	1, 871	1, 905	146	2, 182	1, 234	2, 090	2, 871
30, 352	309, 920	424, 569	821, 876	943, 700	1, 116, 377	879, 800	1, 138, 872
92, 339, 956	81, 345, 878	72, 679, 613	92, 756, 750	114, 057, 036	124, 676, 233	108, 032, 454	102, 569, 818
1, 908, 354	1, 643, 103	14, 891, 254	13, 890, 994	6, 855, 205	9, 230, 963	8, 205, 138	6, 223, 021
94, 243, 310	82, 988, 981	87, 570, 867	106, 647, 756	120, 912, 241	183, 907, 196	116, 237, 592	108, 792, 849
1, 970, 730 2, 180, 193 171, 076 92, 533	2, 167, 074 2, 284, 441 833, 896 188, 794	2, 095, 632 1, 807, 434 180, 792 84, 078	1, 955, 664 1, 980, 936 262, 926 90, 882	2, 242, 404 2, 153, 466 872, 276 80, 331	2, 875, 176 2, 869, 250 396, 090 104, 004	2, 172, 906 2, 176, 794 862, 070 94, 770	1, 9 <b>79, 964</b> 2, 082, <b>99</b> 6 297, 918 <b>4</b> 7, <b>6</b> 28
4, 414, 535	4, 923, 705	4, 167, 936	4, 290, 408	4, 848, 477	5, 744, 520	4, 806, 540	4, 408, 506
2, 364, 601 175, 446	2, 227, 838 200, 718	2, 652, 588 282, 794	2, 444, 580 204, 120	8, 457, 404 148, 716	3, 295, 566 152, 118	3, 122, 550 190, 998	2, 212, 758 143, 856
2, 540, 047	2, 428, 056	2, 885, 382	2, 648, 700	8, 606, 120	8, 447, 684	8, 818, 548	2, 356, 614
• • • • • • • • • • • •					52, 402	56, 648	17, 112
6, 954, 582	7, 351, 761	7, 053, 818	6, 939, 108	8, 454, 597	9, 245, 606	8, 176, 736	6, 782, 282
101, 197, 892	90, 340, 742	94, 624, 185	113, 586, 864	129, 366, 838	149 159 909	124, 414, 828	115, 574, 581

t. The details of the imports for the several countries in 1876 show an excess over the total given of \$64,220. The error occurs in the official returns.

73-No. 85-8

## BRITISH NORTH AMERICA-Continued.

# Total value of exports, including bullion and specie

Whither exported.	1873.	1874.	1875.	1876.	1877.
DOMINION OF CANADA.					
Continent of America:	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
United States.	42, 598, 386	36, 697, 574	30, 286, 062	<b>3</b> 2, <b>329</b> , 108	26, 097, 228
Newfoundland, &c	2, 835, 324	1, 588, 734	1, 925, 532	1, 875, 960	2, 188, 400
British West Indies		2, 022, 046	2, 312, 388	2, 175, 836	2, 221, 902
South America	1, 301, 508	1, 228, 122	795, 582	696, 929	659, 968
Spanish West Indies	1, 644, 624 803, 750	1, 270, 890	1, 055, 106	1, 160, 568	1, 300, 536
French West Indies	96, 228	385, 398 147, 744	876, 164 251, 262	296, 460 88, 938	162, 324 151, 632
Total to America	50, 773, 878	48, 340, 508	37, 002, 096	<b>88, 623, 290</b>	<b>32,</b> 732, 100
Continent of Europe:					
United Kingdom	89, 227, 976	45, 566, 388	40, 533, 372	41, 232, 726	42, 087, 114
· France	82, 076	270, 702	215, 298	560, 844	<b>323, 190</b>
Belgium		243, 486	60, 264		67, 554
Italy	17 <b>9</b> , 834 193, 428	192, 456 195, 858	172, 583 182, 736		201, 690 136, 846
Portugal	77, 274	66, 096	91, 854		34, 992
Germany		972	7, 290	9, 525	63, 666
Holland		44, 226	29, 063	81, 104	95, 256
Total to Europe	89, 766, 464	46, 580, 184	41, 292, 410	42, 249, 243	48, 000, 308
Continent of Asia:	45.140	00.050			07.400
China and Japan	-	39, 852	87, 422	<b>23,</b> 328	<b>37, 422</b>
South Africa	4, 860	840.		24, 300	23, 328
Australasia	42, 280	100, 602	184, 680	93, 312	190, 998
Not otherwise designated	277, 911	408, 541	514, 388	965, 032	839, 670
Total exports from Dominion	90, 912, 535	90, 468, 827	79, 062, 000	81, 978, 514	76, 823, 826
HEWFOUNDLAND.					
Continent of America:	1 107 704	1 201 410	1 241 046	1 979 949	1 404 034
Brazil	1, 187, 784 360, 612	1, 391, 418 445, 176	1, 341, 846 194, 400	1, 272, 848 260, 010	1, 494, 936 196, 830
United States	044 074	320, 274	199, 746	139, 968	232, 808
British West Indies	292, 086	398, 034	361, 564	319, 785	277, 020
Foreign West Indies		162, 810	191, 484	51, 030	70, 470
St. Pierre	6, 318	7, 290	2, 430	5, 346	14, 580
Total to America	2, 206, 440	2, 725, 002	2, 291, 490	2, 048, 487	2, 286, 144
Continent of Europe:					
United Kingdom	2, 215, 674	1, 849, 230	2, 156, 842	2, 305, 098	2, 970, 48
Portugal		1, 085, 724	949, 644	870, 426	781, 48
Spain		1, 154, 250	681, 855	896, 184	556, 956
Italy	158, 430	895, 118	253, 692	<b>865, 958</b>	108, 51
Germany	53, 460		58, 320	55, 404	12, 63
Total to Europe	4, 862, 330	4, 484, 822	4, 100, 853	4, 498, 070	4, 874, 97
Not otherwise designated	49, 905	218, 408	120, 557	102, 549	266, 030
Total from Newfoundland	6, 618, 675	7, 427, 732	6, 512, 400	6, 644, 106	6, 927, 15
Total from British North America	97, 531, 210	97, 896, 559	85, 574, 400	88, 622, 620	83, 750, 978

BRITISH NORTH AMERICA-Continued.

and foreign merchandise, to the principal countries.

<del> </del>		<u> </u>	<del></del>						
1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.		
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.		
25, 541, 244	27, 505, 170	<b>8</b> 3, 766, 308	87, 827, 230	48, 539, 736	42, 189, 562	88, 787, 174	89, 698, 42		
2, 120, 904	1, 661, 925	1, 528, 956	1, 542, 564	2, 005, 236	2, 214, 702	1, 917, 756	1, 668, 43		
1, 974, 618 662, 418	1, 979, 964 750, 870	1, 929, 906 799, 956	1, 810, 350 741, 150	1, 710, 234 953, 046	1, 808, 892	1, 709, 748	1, 531, 87 1, 466, 26		
1, 103, 220	1, 252, 908	1, 386, 014	1, 182, 438	1, 091, 556	1, 075, 032 943, 812	1, 276, 236 1, 043, 442	801, 90		
248, 804	226, 962	226, 962	112,752	156, 978	820, 274	307, 152	141, 42		
129, 276	80, 424	95, 742	81, 648	73, 872	90, 882	54, 432	50, 04		
31, 780, 484	88, 467, : 23	39, 683, 844	42, 798, 132	54, 530, 658	48, 643, 156	45, 095, 940	45, 858, 88		
46, 485, 414	86, 749, 876	46, 419, 318	54, 423, 252	45, 840, 492	47, 734, 434	43, 676, 834	41, 820, 03		
373, 734	723, 654	822, 798	671, 166	835, 920	625, 482	<b>89</b> 0, <b>25</b> 8	803, 26		
50, 544	40, 824	697, 410	261, 468	144, 342	198, 288	286, 740	72, 41		
158, 576 105, 462	150, 174 187, 530	165, 726 168, 156	147, 744 109, 836	165, 726 151, 632	220, 644 182, 250	246, 888 172, 044	147, 25 166, 69		
123, 930	113, 724	83, 106	86, 022	155, 034	135, 594	195, 372	263, 89		
48, 405	51, 030	61, 722	47, 142	109, 850	69, 984	143, 856	132, 67		
54, 432	10, 692	104, 004	218, 214	369, 846	27, 702	15, 552	24, 05		
47, 895, 497	87, 977, 004	48, 522, 240	55, 964, 844	47, 772, 342	<b>49, 194, 378</b>	45, 127, 044	42, 980, 29		
<b>103,</b> 518	57, 348	87, 908	19, 926	107, 892	106, 677	<b>6</b> 0, 750	<b>29</b> , 87		
47, 142	46, 170	83, 106	82, 620	96, 714	80, 676	47, 628	85, 76		
388, 314	<b>824,</b> 162	157, 950	150, 660	364, 986	399, 006	5 1, 522	421, 63		
600, 258	512, 986	525, 303	503, 272	527 590	887, 840	448, 894	840, 66		
80, 815, 218	72, 384, 893	89, 010, 851	99, 519, 454	103, 400, 582	99, 311, 733	91, 281, 278	89, 116, 61		
		_				•			
1, 336, 900	1, 401, 138	1, 453, 140	2, 149, 092	1, 588, 734	1, 195, 074	1, 595, 052	920, 97		
271, 674	320, 760	408, 240	427, 680	409, 212	401, 922	336, 798	234, 25		
178, 848	271, 188	294, 030	320, 274	812, 498	<b>596</b> , 808	294, 516	199, 26		
213, 840 38, 394	233, 280 40, 824	260, 496 38, 894	845, 060 48, 144	294, 516 36, 450	294, 516 46, 656	294, 804 88, 894	225, 50 8, 88		
17, 496	9, 234	22, 842	11, 664	4,714	9, 720	12, 150	11, 29		
2, 067, 152	2, 276, 424	2, 477, 142	3, 301, 914	2, 646, 124	2, 544, 69 6	2, 571, 714	1, 595, 16		
2, 307, 182	<b>2,</b> 101, <b>9</b> 50	1, 800, 844	2, 314, 818	1, 719, 468	1, 679, 180	1, 567, 850	1, 242, 21		
761, 076	722, 682	657, 558	1, 197, 990	1, 414, 746	1, 484, 918	1, 496, 748	1, 250, 96		
<b>386, 3</b> 70	591, 948	389, 286	637, 146	798, 180	653, 184	515, 160	299, 37		
156, 492	183, 164 50, 058	121, 500 456	209, 952 49, 086	847, 490 17, 010	226, 476 158, 090	151, <b>632</b> 15, <b>5</b> 52	128, 80		
8, 611, 120	8, 599, 802	2, 969, 644	4, 408, 992	4, 296, 894	4, 196, 798	8, 746, 442	2, 920, 86		
82, 994	116, 660	259, 340	205, 694	145, 729	403, 476	831, 058	269, 66		
5, 701, 266	5, 992, 886	5, 706, 126	7, 916, 600	7, 088, 747	7, 144, 970	6, 649, 209	4, 785, 69		
86, 016, 479	78, 877, 779	94, 716, 477	107, 486, 054	110, 489, 829	106, 456, 703	97, 980, 487	98, 902, 30		

## BRITISH NORTH AMERICA-Continued.

# Quantities and value of merchandise

Articles.	1873.	1874.	1875.	1876.	1877.
DOMINION OF CANADA. Books	950, 130	966, 168	1, 055, 106	863, 222	883, 062
Coal and coke	2, 091, 838	885, 310 3, 853, 008	717, 794 3, 114, 774	873, 366 8, 361, 672	1, 077, 804 8, 015, <b>60</b> 8
Cotton Spounds	1, 982, 848	8, 514, 287	3, 778, 109	5, 527, 428	5, 578, 222
Cotton	852, 850	504, 468	560, 358	669, 222	603, 212
Cotton manufacturesdollars Earthen and glass waredollars	10, 292, 022 642, 978	11, 452, 390 556, 470	10, 342, 080 577, 368	7, <b>466</b> , 904 428, 792	7, 892, 154 419, 418
Wheat. Sushels.	5, 804, 630	9, 910, 551	5, 105, 158	5, 858, 136	
arallop (	6, 980, 904	8, 495, 280	6, 740, 820	6, 166, 368	4, 907 628
Other kinds of grain bushels	4, 993, 164	5, 975, 259 3, 018, 546	3, 974, 369 2, 584, 548	4, 840, 258 2, 679, 318	10, 893, 897 5, 165, 694
Č ho naoke	2,000,102	520, 419	624, 784	520, 804	853, 646
Flour dollars	2, 565, 108	2, 622, 942	3, 121, 092	2, 435, 832	3, 940, 488
Hats, caps, and bonnetsdollars Hides and poltsdollars	801, 414 1, 428, 344	937, 980 1, 500, 768	1, 005, 048 1, 850, 200	849, 528 1, 042, 956	926, 802 1, 165, 914
Hosierydollars	437, 400	471, 906	595, 850	465, 588	468, 018
Your and a small set one of					
Iron, and manufactures of: Hardware, cutlery, steeldollars			5, 392, 170	3, 685, 824	3, 541, 968
Tinned platesdollars		!	871, 884	736, 776	728, 514
Rolled and boiler platesdollars			127, 818	59, 778	110, 808
Nail and spike rodsdollars Wire of all kindsdollars	4, 743, 122	5, 698, 768	68, 526 174, 960	71, 442 185, 108	88, 988 166, 698
Bar, rod, hoop and sheetdollars	11	] }	2, 894, 522	1, 447, 794	1, 481, 328
Galvanized irondollars	J	1	158, 922	120, 042	162, 324
Pig, scrap, bars, &cdollars Railroad bars, &cdollars			1, 471, 142	719, 766 8, 946, 320	850, 500
Mattroad bars, do	7, 368, 872	4, 880, 804	5, 355, 720	0, 530, 520	1, 991, 942
Total irondollars	19, 835, 600	15, 035, 314	16, 015, 664	10, 922, 850	9, 128, 020
Leather:	<del></del>		 		
Boots and shoesdollars	208, 008	237, 654	248, 346	286, 254	454, 410
Other kindsdollars	1, 285, 470	1, 305, 396	1, 437, 588	838, 836	915, 188
Linendollars dollars dollars	976, 374	1, 190, 786 3, 205, 170	1, 308, 798 1, 508, 058	819, 396 921 426	880, 146 997, 272
•	l	23, 534, 863	21, 081, 594	14, 898, 975	25, 861, 909
dollars	1, 272, 348	1, 715, 580	1, 964, 898	1, 430, 784	2, 223, 936
Salt	291, 600		2, 566, 994	8, 055, 943 856, 285	8, 10 <b>2</b> , 107
Ships' materialsdollars	1, 349, 136	468, 990 1, 641, 222	323, 676 1, 442, 448	992, 8 <b>9</b> 8	352, 250 844, <b>66</b> 8
Silks, satin, and velvetsdollars	2, 308, 500	2, 180, 682	2, 301, 646	1, 321, 920	1, 139, 184
Spirits, brandy	703, 465 885, 006	· <b>6</b> 02, <b>6</b> 95 889, 866	598, 052 864, 594	359, 726 541, 404	300, 987 581, 742
Stationerydollars	540, 432	523, 908	600, 696	484, 542	
Stationery dollars pounds Molasses pounds po		92, 648, 213	105, 755, 791	104, 819, 734	97, 104, 896
) dollars	5, 760, 072	4, 410, 450 54, 892, 050	5, 045, 480 56, 280, 276	4, 648, 104 53, 754, 470	5, 6:)8, 440 43, 8:3, 630
Molasses	736, 290	1 756,818	1, 239, 786	984, 768	869, 454
Too y pounds	. <b></b>	10, 921, 559	13, 063, 995	18, 305, 342	18, 474, 888
Tobacco:	5, 615, 244	3, 684, 852	4, 127, 212	3, 791, 172	8, 479, 274
Your footned (pounds		375, 728		<b>805, 458</b>	
Manufactured	96, 714	111, 294	96, 714	112, 266	87, 480
Unmanufactured { pounds dollars	6, 585, 780 754, 758	11, 254, 058 1, 022, 544	11, 120, 166 1, 273, 806	7, <b>6</b> 38, 448 833, 796	9, 808, <b>6</b> 70 891, 824
Č gallons	1, 102, 367	845, 999	837, 685	552, 924	483, 711
( "UIAI O	781, 974	664, 960	641, 520	438, 372	436, 428
Woolen manufacturesdollarsdollarsdollars		11, 306, 793 40, 811, 981	13, 163, 796 37, 217, 496	8, 475, 840 27, 498, 932	8, 874, <b>36</b> 0 80, 371, <b>36</b> 5
				<u> </u>	
Total merchandise for Dominion.dols	126, 568, 392	125, 540, 186	122, 368, 516	92, 124, 187 2 251 317	
Bullion and speciedollars					2, 176, 910
Total from Dominiondols	129, 611, 423	129, 816, 257	124, 608, 903	94, 875, 504	100, 569, 535
NEWFOUNDLAND.	<del></del>		<del></del>		<del></del>
Breadstuffs and provisions:					
barrels	242, 387	280, 063	236, 073	293, 680	249, 058
All othersdollars	1, 781, 412 862, 650	1, 741, 486 1, 088, 154	1, 434, 186 1, 029, 848	1, 635, 876 1, 006, 020	1, 387, 044 1, 200, 906
Cottons, woolens, silks, &cdollars	1, 170, 774	1, 127, 750	1, 278, 666	1, 182, 438	1, 350, 108
Leather, and manufactures of dollars	358, 182	405, 324	385, 884	380, 052	848, 462
Sugar and molassesdollars	513, 217	462, 186 126 568	560, 858 133 650	465, 588	428, 652 123, 650
Tea	121, 986 2, 092, 966	136, 566 2, 525, 157	133, 650 2, 628, 016	157, 464 2, 468, 637	123, 650 2, 616, 855
Total from Newfoundlanddols	6, 851, 186	7, 446, 623	7, 450 108	7, 296, 075	7, 455, 677
TOTAL FOR BRITISH NORTH		<del></del>	<del></del>		
	136, 462, 609	187, 262, 880	132, 059, 011	101, 671, 579	108, 025, 212
•	 	<u> </u>			

## BRITISH NORTH AMERICA—Continued.

imported (years ended June 30).

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
905, 418	805, 788	647, 852	678, 456	787, 320	852, 650	890, 852	804, 816
986, 091	1, 083, 282	1, 204, 567	1, 830, 871	1, 552, 709	1, 903, 821	2, 323, 112	2, 227, 084
8, 100, 194	8, 218, 192	3, 175, 524	4, 292, 352	5, 182, 704	6, 514, 344	8, 239, 644	7, 353, 666
7, 242, 413	9,720,768	13, 237, 168	16, 018, 721	19, 342, 059	28, 777, 071	20, 769, 940	23, 727, 525
784, 404	996, 300	1, 514, 862	1,727,244	1, 961, 010	8, 035, 070	2, 232, 198	2, 489, 778
7, 356, 096 <b>49</b> 1, 346	<b>6, 616,</b> 890 <b>3</b> 80, 538	7, 400, 808 380, 052	9, 398, 754 419, 904	10, 425, 672 671, 166	9, 809, 816 683, 816	7, 232, 166 541, 404	6, 241, 212 485, 025
5, 625, 411	4, 768, 733	7, 521, 594	7, 839, 689	2, 931, 220	4, 961, 374	8, 604, 442	3, 128, 143
6, 591, 618	4, 525, 632	8, 179, 866	7, 898, 958	8, 400, 542	5, 986, 548	3, 870, 990	3, 098, 250
10, 009, 088	9, 814, 984	6, 598, 090	7, 567, 869	4, 018, 446	2, 730, 300	6, 314, 938	3, 873, 140
4, 476, 546 547, 873	8, 904, 038 543, 671	3, 117, 690 287, 091	8, 709, 152 415, 920	2, 550, 528 835, 400	1, 893, 942 433, 417	8, 864, 186 693, 133	2, 221, 992 690, 296
2, 563, 444	2, 046, 546	1, 047, 816	1, 633, 932	1, 553, 742	2, 001, 834	3, 025, 836	2, 650, 158
1, 037, 610	951, 588	980, 748	1, 224, 234	1, 277, 208	1, 381, 212	1, 096, 416	1, 072, 116
1, 222, 290	1, 217, 916	1, 788, 134	2, 240, 460	2, 244, 348	2, 011, 068	1, 418, 148	1, 786, 536
467, 646	461, 214	589, 460	739, 206	1, 033, 236	1, 071, 144	809, 676	780, 516
3, 579, 242	8, 414, 150	3, 004, 452	4, 021, 650	3, 930, 258	<b>5, 246, 37</b> 0	5, 621, 562	5, 356, 306
549, 666	534, 114	708, 588	991, 926	955, 476	979, 290	814, 536	953, 532
92, 531	152, 118	162, 324	178, 848	232, 794	258, 552	369, 846	248, 804
48, 114	28, 965	25, 758	19, 197	25, 272	29, 160	21,870	2, 766
181, 706 1, 252, 422	120, 528 1, 115, 370	265, 356 1, 378, 296	365, 958 1, 304, 910	467, 046 1, 820, 556	491, 892 2, 041, <b>6</b> 86	526, 328 1, 595, 538	439, 344 1, 203, 336
134, 136	113, 724	2,0.0,000	1 2,002,020	entered wit		, 2,000,000	, 2, 200, 000
527, 440	<b>872, 762</b>	1, 198, 962	849, 042	1, 263, 114	1, 444, 878	<b>836</b> , 163	608, 472
1, 411, 550	1, 062, 882	2, 204, 406	8, 185, 244	2, 812, 968	4, 214, 492	2, 841, 156	2, 444, 094
7, 726, 807	6, 914, 613	9, 038, 142	10, 916, 775	11, 507, 484	14, 706, 320	12, 627, 009	11, 256, 654
940 918	202, 176	109, 850	106, 920	166, 212	220, 644	199, 260	191, 970
249, 318 97ક, 804	1, 054, 134	1, 110, 024	1, 409, 886	1, 769, 040	1, 845, 842	1, 245, 132	1, 339, 902
1, 014, 768	860, 220	963, 252	1, 228, 178	1, 863, 716	1, 218, 456	1, 104, 678	1, 158, 138
798, 984	937, 980	1, 171, 746	1, 697, 598	<b>8,</b> 811, <b>69</b> 8	4, 822, 578	2, 417, 364	1, 895, 792
24, 034, 970	17, 743, 896	29, 806, U24	<b>32, 980, 776</b>	28, 997, 579	0 010 70¢	1 400 004	1 770 404
1, 592, 136 2, 738, <b>6</b> 05	1, 025, 946 2, 906, 633	1, 711, 206 3, 557, 304	2, 25 <b>6, 49</b> 8 3, 910, 732	2, 428, 056 2, 857, 254	2, 318, 706 4, 313, 996	1, <b>6</b> 36, 224 3, 995, 888	1, 770, 49% 3, 032, 611
<b>327, 078</b>	407, 268	409, 212	501, 066	832, 424	428, 652	366, 444	287, 712
684, 744	496, 692	585, 424	<b>6</b> 35, 202	638, 111	707, 616	<b>528</b> , 282	405, 324
1, 431, 756	1, 380, 240	1, 646, 565	1, 972, 674	2, 889, 176	2, 136, 456	2, 192, 832	2, 288, 574
285, 584 520, 020	276, 991 490, 860	276, 401 509, 814	219, 015 441, 774	282, <b>64</b> 2 532, <b>656</b>	349, 601 656, 585	234, 562 165, 240	374, 706
485, 028	329, 548	69, 984	102, 060	120, 528	105, 462	100, 240	014, 100
110, 988, 956	115, 824, 902	112, 375, 248	132, 789, 814	134, 999, 510	154, 200, 540	178, 199, 349	214, 918, 916
6, 128, 460	5, 479, 164	3, 998, 322	5, 073, 840	4, 937, 760	5, 209, 920	5, 649, 264	5, 289, 624
<b>53,</b> 098, 706 1, 192, 155	42, 807, 653 758, 160	32, 899, 908 590, 004	51, 401, 532 1, 144, 530	42, 548, 820 1, 058, <b>3</b> 02	57, 172, 788 1, <b>434</b> , 18 <b>6</b>	46, 369, 968 967, 626	49, 845, 256 763, 992
12, 085, 961	12, 568, 211	13, 409, 217	19, 462, 336	17, 011, 891	17, 436, 765	15, 718, 442	18, 255, 368
2, 797, 902	2, 783, 322	3, 213, 918	8, 994, 920	8, 498, 714	8, 506, 009	8, 107, 484	3, 533, 706
196, 838	375, 583	255, 755	816, 274	859, 444	379, 867	420, 297	415, 565
67, 068	367, 418 9, 196, 653	223, 074 9, 430, 025	309, 582 10, 460, 588	416, 988 12, 286, 391	413, 586 9, 586, 151	416, 502 14, 325, 611	414, 072 11, 497, 294
8, 881, 463 712, 476	753, 786	827, 172	1, 013, 870	1, 350, 594	1, 106, 622	1, 742, 796	1, 454, 112
429, 046	349, 732	433, 806	474, 378	696, 772	808, 456	452, 793	421,719
406, 296	<b>355, 26</b> 6	408, 726	460, 242	724, 626	805, 302	486, 972	456, 956
8, 618, 232	7, 079, 562	6, 243, 156	8, 485, 560	9, 718, 056	9, 618, 156	7, 838, 208	8, 571, 096
28, 715, 750	24, 528, 453	24, 119, 281	29, 796, 331	41, 538, 083	35, 835, 112	36, 837, 619	85, 905, 261
<b>93, 434, 894</b> 810, 916	81, 329, 408 1, 650, 573	85, 665, 684 1, 905, 183	105, 510, 158 1, 137, 598	119, 389, 700 1, 522, 541	132, 615, 728 1, 291, 468	114, 032, 952 2, 204, 640	105, 842, 154 2, 950, 195
94, 245, 310	82, 988, 981	87, 570, 867	106, 647, 756	120, 912, 241	133, 907, 196	116, 237, 592	108, 792, 349
	=======================================	<del></del>					
324, 911	303, 483	298, 484	298, 858	361, 295	<b>865,</b> 940	326, 961	303, 694
1, 776, 330	1, 843, 398	1, 506, 114	1, 512, 918	1, 249, 020	1, 852, 632	1, 655, 316	1, 537, 218
734, 346	787, 320	770, 310	872, 870	805, 788	1, 228, 122	701, 784	937, 490
1, 045, 879 277, 020	1, 023, 516 318, 470	1, 228, 608 279, 450	1, 012, 824 328, 536	1, 410, 394 296, 460	1, 846, 706 283, 824	1, 350, 108 280, 420	9 <b>35, 550</b> 208, 980
316, 386	516, 132	365, 528	438, 858	536, 572	625, 968	482, 112	879, 566
151, 632	149, 912	201, 204	218, 700	216, 756	224, 644	193, 919	201, 690
2, 652, 991	2, 718, 013	2, 701, 966	2, 565, 253	4, 839, 607	3, 687, 710	8, 513, 077	2, 581, 734
6, 954, 577	7, 351, 761	7, 053, 180	6, 949, 459	8, 454, 597	9, 245, 606	8, 176, 786	6, 782, 232
101, 199, 887	90, 840, 742	94, 624,047	113, 697, 215	129, 366, 838	143 159 209	124, 414, 328	115, 574, 581
TAT' Tes' 001	00,000,712	01, 022,021	110, 001, 210	120, 000, 000	170, 102, 002	1 444, 412, 020	1 140,013,001

### BRITISH NORTH AMERICA—Continued.

## Quantities and value of merchandise

·					
Articles.	1878.	1874	1875.	1876.	1877.
DOMINION OF CANADA.					
Coal { tons { dollars } tons	404, 757	418, 857	288, 176	284, 279	254, 933
	964, 224	1, 360, 814	949, 644	1, 015, 254	884, 054
	2, 588	8, 148	2, 390	2, 230	1, 313
Copper ore	168, 642	136, 566	105, 462	356, 238	316, 886
Fish: Dried	76, 987, 536	88, <b>832</b> , 832	85, 209, 120	73, 697, 008	84, 918, 064
	2, 840, 184	2, 730, 834	2, 786, 238	8, 091, 446	8, 863, 606
Pickled	10, 598, 896	2, 543, 520	2, 248, 624	3, 068, 912	3, 776, 520
	252, 666	222, 994	266, 747	225, 749	233, 925
	1, 342, 818	1, 591, 650	1, 681, 560	1, 489, 104	1, 454, 598
Lobster, preserved { pounds dollars	1, 584, 793 281, 894	<b>4,</b> 830, 180 530, 226	4, 538, 167 630, 210	4, 575, 285 579, 312	6, 108, 726 677, 970
Total fishdollars	4, 464, 396	4, 852, 710	5, 098, 008	5, 159, 862	5, 496, 174
Ashes, pot and pearl { barrels dollars	16, 285 664, 848	15, 478 545, 292	18, 846 553, 068	429, 138	16, 460 477, 738
Timber:  Elm { tons}  Oak { tons}	22, 401	27, 696	26, 629	20, 940	26, 919
	270, 702	399, 978	394, 146	234, 252	328, 536
	83, 174	90, 225	81, 959	66, 952	97, 756
	1, 258, 254	1, 614, 006	1, 652, 886	1, 898, 222	1, 662, 606
White pine	880, 554	256, 371	349, 173	289, 441	413, 787
	4, 023, 108	2, 774, 574	3, 588, 624	2, 980, 152	4, 308, 530
	40, 959	20, 534	44, 056	37, 040	56, 540
	406, 296	251, 262	438, 372	303, 750	413, 100
Staves	11, 693	7, 939	6, 561	5, 001	7, 352
	799, 956	737, 864	649, 782	479, 196	648, 810
	264, 861	840, 833	219, 921	237, 820	275, 333
	6, 451, 650	8, 273, 178	8, 835, 480	7, 221, 176	8, 935, 596
Planks and boards \{ M feet \{ dollars	901, 734	911, 794	579, <b>6</b> 86	427, 143	459, 738
	8, 833, 536	11, 499, 246	9, 336, 546	4, 842, 990	4, 755, 024
Total timberdollars	22, 043, 502	25, 550, 108	24, 895, 836	17, 459, 738	21, 047, 202
Animals:			كاللك السبك		
Horses { number { dollars	8, 782	5, 399	4, 882	4, 800	8, 341
	933, 606	577, 854	466, 560	448, 578	805, 302
Horned cattle	25, 687	39, 623	38, 968	25, 898	24, 127
	663, 876	963, 252	833, 976	653, 670	857, 304
Sheep aumber dollars	815, 832	252, 081	242, 438	141, 187	209, 899
	969, 570	711, 804	645, 408	513, 702	590, 490
Total animalsdollars	2, 567, 052	2, 252, 610	1, 945, 944	1, 615, 950	2, 253, 096
Produce of animals:	90 000 000	00 000 500	0 000 500	10 000 000	18 010 510
Bacon and hams { pounds } dollars } butter { dollars } dollars	39, 982, 096	20, 237, 728	9, 963, 528	10, 286, 976	17, 813, 712
	2, 852, 240	1, 607, 202	836, 892	957 906	1, 456, 410
	15, 208, 592	11, 333, 088	9, 268, 224	12, 892, 852	15, 479, 52
	2, 848, 932	2, 657 934	2, 837, 174	2, 611, 764	3, 265, 43
Cheese { pounds } dollars } dozen	19, 485, 424	24, 050, 992	32, 342, 016	37, 325, 232	37, 710, 880
	2, 808, 986	8, 552, 660	8, 934, 656	4, 110, 588	3, 946, 806
	8, 573, 781	4, 407, 534	3, 521, 068	3, 880, 813	5, 025, 958
Eggs dollars dollars dollars	516, 132	624, 024	439, 830	514, 674	541, 404
	523, 422	895, 604	534, <b>60</b> 0	541, 890	518, 076
Lard	4, 765, 162	5, 098, 240	946, 064	11, 585, 008	10, 529, 344
	206, 550	221, 130	40, 824	459, 270	456, 840
	5, 088, 144	11, 232, 592	8, 040, 800	4, 995, 424	4, 625, 712
	271, 188	818, 816	250, 776	364, 500	333, 826
Wool	8, 126, 172	2, 764, 796	2, 647, 498	2, 907, 229	2, 476, 484
	1, 469, 178	996, 300	931, 176	945, 270	707, 616
	1, 037, 964	1, 676, 700	1, 369, 062	1, 905, 112	1, 352, 538
Total produce of animals dollars	11, 534, 592	12, 050, 370	10, 674, 990	12, 410, 974	12, 578, 520
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BRITISH NORTH AMERICA—Continued.

exported (years ended June 30).

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
345, 282	820, 929	356 221	433, 858	444, 142	468, 490	504, 537	598, 237
1, 243, 188	965, 196	1, 063, 565	1, 083, 896	1, 173, 204	1, 210, 626	1, 356, 426	1, <b>646</b> , 085
654	98	5, 883	19, 802	44, 745	4, 402	1, 677	1, 385
121, 014	19, 926	152, 604	152, 118	140, 940	152, 604	213, 840	246, 916
91, 278, 096	94, 151, 232	111, 649, 440	114, 527, 616	109, 086, 890	90, 138, 368	95, 267, 984	84, 943, 520
3, 308, 688	3, 289, 734	8, 714, 012	3, 845, 624	3, 595, 428	8, 890, 480	3, 734, 424	8, 049, 164
3, 329, 312 258, 743 2, 030, 994	4, 991, 952 288, 640 2, 074, 248	8, 033, 408 264, 955 1, 465, 746	8, 041, 472 268, 592 1, 528, 470	8, 718, 080 195, 250 1, 921, 644	13, 650, 224 214, 454 2, 471, 310	252, 053 1, 635, 890	3, 763, 544 289, 278 1, 478, 411
8, 427, 108	10, 980, 874	9, 211, 527	13, 869, 753	14, 809, 162	15, 100, 980	10, 822, 987	14, 584, 920
978, 318	1, 167, 872	972, 000	1, 872, 464	1, 449, 738	1, 497, 366	1, 290, 330	1, 654, 942
6, 318, 000	6, 581, 854	6, 151, 758	6, 246, 558	6, 966, 810	7, 859, 106	6, 660, 144	6, 178, 518
19, 579	11, 060	11, 980	10, 149	11, 109	7, 801	7, 495	6, 001
<b>300, 34</b> 8	248, 346	808, 124	<b>294, 0</b> 30	832, 910	<b>277</b> , 188	224, 016	156, 978
24, 405	8, 648	14, 578	28, 905	17, 682	23, 152	16, 330	<b>20, 196</b>
83, 106	99, 144	158, 436	840, 538	211, 896	284, 796	215, 784	<b>808, 6</b> 10
72, 368	28, 647	48, 606	67, 161	41, 395	52, 448	51, 704	<b>86, 677</b>
1, 159, 596	424, 728	604, 584	1, 223, 748	832, 518	1, 110, 998	1, 017, 684	<b>64</b> 0, 548
303, 861	• 126, 161	148, 961	834, 163	200, 000	224, 192	258, 950	192, 494
2, 892, 672	1, 117, 800	1, 030, 066	8, 568, 698	2, 295, 864	3, 055, 968	8, 252, 312	2, 037, 796
37, 453	20, 662	19, 911	87, 445	21, 981	26, 116	27, 361	15, 235
271, 674	144, 342	138, 510	825, 134	194, 000	229, 392	213, 354	103, 516
7, 624	5, 314	11, 538	13, 656	32, 262	40, 094	56, 731	68, 849
452, 952	180, 792	218, 700	247, 860	362, 070	487, 450	537, 516	424, 764
269, 460	214, 814	236, 417	278, 017	283, 959	289, 698	815, 851	243, 851
8, 229, 438	5, 476, 734	6, 841, 828	9, 382, 230	8, 585, 190	9, 476, 028	9, 389, 286	7, 334, 226
411, 596	457, 430	766, 122	682, 514	725, 914	665, 937	700, 813	683, <b>92</b> 3
4, 507, 650	4, 284, 090	6, 176, 574	7, 467, 390	8, 638, 836	8, 458, 844	8, 767, 440	8, 830, 040
17, 597, 088	11, 727, 630	14, 686, 198	22, 595, 598	21, 120, 374	23, 102, 974	23, 384, 876	19, 179, 504
14, 207	16, 635	21, 472	22, 008	21, 006	13, 500	12, 872	12, 310
1, 294, 218	1, 895, 306	1, 916, 784	2, 125, 764	2, 288, 690	1, 718, 982	1, 779, 732	1, <b>6</b> 38, 206
30, 456	49, 257	54, 948	<b>62</b> , 512 <b>8</b> , <b>533</b> , <b>22</b> 0	62, 337	67, 660	90, 664	144, 411
1, 278, 666	2, 323, 080	<b>2, 799, 36</b> 0		3, 326, 184	4, 045, 464	5, 904, 900	7, 569, 450
<b>242, 989 608, 102</b>	368, 398	399, 393	854, 258	311, 6 <b>69</b>	308, <b>662</b>	304, 474	335, 207
	1, 002, 132	1, 444, 878	1, 892, 390	1, 244, 160	1, 409, 886	2, 544, 022	1, 263, 114
3, 180, 986	4, 720, 518	6, 161, 023	7, 051, 374	6, 939, 034	7, 174, 882	10, 228, 654	10, 470, 770
7, 686, 000	5, 717, 264	14, 804, 976	14, 303, 680	10, 903, 424	4, 256, 112	9, 455, 152	9, 132, 256
645, 408	871, 304	900, 558	1, 123, 632	1, 203, 822	505, 926	822, 798	716, 864
13, 504, 064	14, 536, 144	18, 787, 680	17, 820, 208	15, 340, 752	8, 162, 672	9, 490, 768	9, 122, 736
2, 505, 830	2, 165, 180	8, 158, 028	3, 705, 750	3, 012, 228	1, 735, 992	1, 526, 526	1, 575, 126
39, 371, 186	49, 616, 896	43, 441, 104	54, 713, 008	55, 325, 312	63, 343, 168	84, 985, 760	93, 609, 376
4, 173, 282	4, 085, 316	4, 145, 094	6, 167, 826	6, 054, 102	7, 112, 611	7, 812, 936	8, 889, 912
5, 268, 170	5, 440, 825	6, 452, 580	9, 090, 135	10, 499, 982	13, 451, 410	11, 490, 855	11, 512, 703
655, 128	581, 256	749, 895	1, 074, 060	1, 664, 064	2, 284, 686	1, 957, 608	1, 828, 832
404, 838	420, 876	768, 366	451, 980	391, 716	501, 066	470, 934	622, 526
714, 672	878, 712	8, 488, 800	4, 045, 552	1, 965, 876	420, 784	533, 568	93, 072
31, 104	87, 908	151, 632	175, 446	85, 050	17, 496	23, 828	6, 804
2, 706, 560	1, 475, 488	2, 157, 792	8, 178, 320	2, 656, 752	1, 762, 208	2, 612, 320	1, 802, 080
146, 286	70, 956	111, 294	182, 250	194, 886	144, 828	150, 174	101, 574
2, 445, 893	3, 018, 587	8, 705, 714	1, 482, 927	1, 222, 395	1, 875, 572	1, 539, 422	985, 926
718, 794	- 685, 746	961, 808	433, 512	274, 004	263, 824	315, 900	195, 858
1, 357, 884	1, 206, 252	1, 050, 732	2, 011, 068	1, 312, 200	1, 110, 024	1, 027, 034	1, 638, 306
10, 638, 054	9, 624, 744	11, 996, 907	15, 325, 524	14, 192, 072	13, 696, 458	14, 207, 238	15, 575, 802
			·			1 <del></del>	

## BRITISH NORTH AMERICA-Continued.

## Quantities and value o merchandise

Articles.	1873.	1874.	1875.	1876.	1877.
DOMINION OF CANADA—continued.					
Agricultural products:				1	
Barley and rye Sbushels	4, 846, 923	8, 748, 275	5, 419, 054	10, 168, 176	6, 682, 245
Indian com Sbushels	2, 993, 274 6, 949, 595	4, 130, 028 2, 680, 568	5, 430, 078 2, 080, 090	7, 522, 308 2, 047, 040	4, 846, 392 4, 083, 174
dollars	4, 038, 174	1, 800, 144	1, 609, 146	1, 465, 776	2, 615, 652
Oats Sushels	629, 467	998, 100	2, 989, 139	2, 644, 233	3, 996, 156
Chraholo	219, 672 1, 128, 027	461,700 1,717,112	1, 464, 804 2, 839, 781	1, 153, 278 2, <b>399, 6</b> 08	1, 678, 644 1, 753, 439
Peas dollars	939, 438	1, 411, 344	2, 688, 066	1, 996, 488	1, 527, 984
Wheat	4, 379, 341	6, 581, 217	4, 333, 023	9, 248, 300	<b>3,</b> 55 <b>9</b> , 095
Channels	6, 099, 300 474, 202	8, 997, 318 540, 317	5, 046, 138 302, 789	10, 546, 686 419, 936	<b>4,</b> 153, 356 276, 439
Flour dollars	2, 939, 814	3, 234, 816	1, 564, 434	2, 233, 170	1, 544, 508
Potatoes					231, 451
Folseoes dollars					86, 508
Total agricultural productsdollars	17, 229, 672	20, 035, 350	17, 802, 666	24, 917, 706	16, 453, 044
Manufactures:					
Extract of hemlock bark. { barrels dollars	18, 629 107, 406	9, 776 96, 714	22, 622 233, 280	28, 725 383, 940	15, 823 163, 782
Leather dollars	318, 330	349, 434	534, 114	1, 148, 904	732, 888
Sewing-machines { number } dollars	34, 558	23, 401	21, 832	31, 399	26, 690 263, 412
•	370, 818	255, 636	257, 580	320, 760	
Total manufacturesdollars	796, 554	701, 784	1, 024, 974	1, 853, 604	1, 160, 082
All other articles	25, 536, 813	19, 861, 013	13, 275, 621	13, 285, 364	14, 210, 694
Total exports of merchandise from the	07.000.007	07:040 440		50 500 000	<b>54 050 00</b> 0
Dominiondollars Exports of specie and bulliondollars	85, 970, 295 4, 942, 240	87, 346, 117 3, 122, 710	76, 826, 213 2, 735, 787	78, 503, 828 3, 474, 686	74, 876, 990 1, 946, 836
GRAND TOTALdollars				81, 978, 514	·
	90, 912, 535	90, 468, 827	79, 062, 000	01, 970, 314	76, 823, 826
NEWFOUNDLAND.					
		189, 923, 840	99, 510, 768	85, 018, 789	83, 400, 240
Ctons	, , ,	5, 230, 818	4, 087, 260	4, 089, 690 27, 667	3, 513, 780 52, 198
Copper ore				622, 566	1, 279, 638
Oil:	1, 003, 212	718, 452	697, 032	571, 536	773, 120
Cod, unrefined	561, 246	461, 700		367, 416	409, <b>6</b> 98 87, 548
Cod, refined	97, 272 80, 190	53, 676 49, 572	21, 420 18, 468	28, 728 <b>32, 076</b>	28, 674
gallons	1, 554, 084	1, 101, 996	1, 218, 824	1, 180, 368	1, 500, 408
Seal, renned	811, 620	620, 186	642, 006	644, 922	771, 768
Skins, seal	449, 727 478, 224	392, 228 516, 132	370, 679 487, 944	341, 292 449, 064	431, 373 327, 564
All other articlesdollars	507, 889	549, 874	783, 918	438, 372	596, 030
Total exports from Newfound-	R 810 87F	7 407 700	& E10 400	R PAA 10P	8 007 1E9
landdollars	6, 618, 675	7, 427, 732	6, 512, 400	6, 644, 106	6, 927, 152
Total for British North America dollars	97, 581, 210	97, 896, 559	85, 574, 400	88, 622, 620	<b>83, 750, 97</b> 8

BRITISH NORTH AMERICA—Continued.

exported (years ending June 30)—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
7, 995, 762	6, 034, 900 5, 933, 043	8, 211, 842 5, 990, 979	9, <b>67</b> 0, 875	12, 870, 124	9, 910, 328	8, <b>6</b> 82, 746	9, 371, 788
4, 826, 922	5, 223, 042	5, 229, 978	7, 182, 050	11, 447, 244	7, 125, 732	5, 692, 518	5, 687, 172
8, 987, 600	5, 420, 859	4, 547, 942	5, 257, 604	2, 220, 900	819, 605	8, 806, 474	2, 007, 674
2, 709, 450	2, 789, 154	2, 211, 800	2, 648, 214	1, 370, 520	593, 406	2, 485, 404	1, 292, 274
2, 430, 841	2, 514, 598	4, 742, 028	2, 926, 532	4, 148, <b>65</b> 0	1, 024, 023	1, 431, 744	2, 367, 605
1, 059, 480	853, 416	1, 736, 964	1, 206, 738	1, 751, 058	466, 560	533, <b>6</b> 28	895, 698
2, 420, 049	2, 715, 252	3, 819, 112	4, 245, 520	3, 521, 496	2, 339, 287	2, 255, 091	2, 698, 778
2, 009, 124	2, 082, 024	8, 014, <b>65</b> 8	3, 521, 556	<b>8</b> , 231, 900	2, 191, 374	2, 061, 126	2, 075, <b>706</b>
8, 569, 243	9, 767, 555	12, 169, 493	9, 092, 279	6, 438, 533	10, 733, 535	3, 021, 188	5, 423, 805
11, 776, 752	10, 070, 660	18, 719, 294	9, 756, 936	8, 255, 682	11, 849, 652	8, 854, 872	5, 053, 914
479, 245	580, 776	561, 484	501, 455	508, 120	526, 340	284, 504	161, 054
2, 792, 070	2, 635, 578	3, 015, 686	2, 500, 956	<b>2,</b> 978, 694	2, 786, 666	1, 441, 476	715, 878
8, 124, 334	2, 665, 078	1, 427, 315	2, 851, 290	8, 800, 162	2, 424, 979	753, 435	6^0, 715
1, 416, 690	1, 283, 526	466, 560	867, 024	2, 297, 822	1, 061, 910	231, 336	234, 252
26, 590, 488	24, 937, 400	29, 894, 440	27, 633, 474	81, 832, 420 ====================================	26, 020, 300	15, 799, 860	15, 951, 894
19, 442	10, <b>602</b>	18, 641	22, 034	29, 879	40, 324	27, 946	15, <b>76</b> 6
189, 738	108, 032	173, 988	192, 456	237, 654	883, 396	360, 612	203, 148
837, 864	474, 822	601, 182	536, 544	570, 564	501, 552	525, 366	519, 826
80, 443	26, 850	27, 664	22, 512	22, 670	9, 187	10, 592	9, 438
277, 020	222, 588	205, 578	169, 614	156, 006	69, 984	122, 472	69, 984
1, 804, 617	800, 442	980, 748	898, 614	964, 224	904, 932	1, 008, 450	792, 958
11, 810, 882	11, 140, 054	14, 734, 501	16, 478, 657	18, 249, 429	17, 851, 822	15, 066, 085	15, 823, 748
79, 104, 665	70, 715, 610	85, 629, 867	97, 759, 843	101, 431, 407	97, 749, 637	88, 149, 149	86, 094, 770
1, 210, 548	1, 669, 283	3, 880, 484	1, 759, 611	1, 969, 175	1, 562, 096	3, 132, 129	8, 021, 841
80, 815, 218	72, 884, 893	89, 010, 851	99, 519, 454	103, 400, 582	99, 311, 733	91, 281, 278	89, 116, 611
77, 765, 968	111, 865, 408	120, 835, 008	131, 433, 120	115, 054, 128	139, 360, 608	134, 185, 344	115, 887, 520
8, 124, 180	8, 534, 192	8, 323, 754	5, 189, 508	5, 036, 418	4, 785, 156	4, 783, 425	8, 352, 914
39, 405	81, 246	24, 246	30, 086	21, 190	13, 587	5, 955	5, 171
798, 012	517, 590	446, 148	554, 040	477, 336	260, 010	100, 602	108, 518
742, 892	1, 076, 040	1, 023, 120	1, 051, 948	978, 516	740, 124	929, 876	556, 164
241, 056	433, 026	555, 012	490, 374	455, 868	368, 874	477, 788	280, 422
15, 876	47, 876	82, 760	45, 864	82, 656	101, 808	59, 220	58, 968
28, 674	80, 182	19, 440	30, 618	16, 038	78, 420	49, 440	48, 357
1, 487, 556	1, 570, 716	999, 684	1, 719, 900	831, 852	1, 845, 982	1, 000, 188	867, 132
717, 336	606, 042	622, 566	768, 366	414, 558	670, 680	466, 560	848, 462
419, 220	457, 855	261, 508	408, 479	178, 812	322, 698	266, 290	288, 596
296, 946	324, 648	211, 896	872, 276	181, 278	326, 592	823, 676	217, 242
494, 262	547, 236	527, 310	501, 418	507, 251	657, 238	447, 768	434, 776
5, 701, 266	5, 992, 866	5, 706, 126	7, 916, 600	7, 088, 747	7, 146, 970	6, 649, 209	4, 785, 691
<b>86</b> , 016, 479	78, 377, 750	94, 716, 477	107, 486, 054	110, 489, 829	106, 458, 708	97, 930, 487	98, 902, 802

#### BRITISH HONDURAS.

## Value of imports, including bullion

Countries.	1873.	1874.	1875.	1876.	1877.	
	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	
United Kingdom	775, 170	477, 788	461, 680	485, 708	410, 670	
United States	298, 890	<b>322</b> , 218	<b>326, 106</b>	250, 776	840, 102	
Mexico	8, 657	20, 808	25, 272	26, 924	29, 160	
Central American States	41, 796	40, 824	82, 076	27, 118	18, 711	
All other countries	80, 436	5, 336	6, 926	3, 612	14, 104	
TOTAL IMPORTS	1, 149, 949	867, 014	852, 960	794, 138	812, 747	

## Value of exports, domestic and foreign, including

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollars.	Dollars.	Dollare.	Dollars.	Dollare.
United Kingdom	628, 898	654, 652	506, 845	619, 650	459, 270
United States	150 <b>, 66</b> 0	133, 650	170, 586	93, 798	117, 612
Mexico	• • • • • • • • • •	47, 628	13, 122	228, 274	26, 938
Central American States	253, 692	833, 233	285, 768	81, 104	544
All other countries	21, 836	289	7, 887	<b>80, 87</b> 5	720
TOTAL EXPORTS	1, 054, 586	1, 169, 452	984, 208	1, 003, 201	<b>*605, 0</b> 84

<sup>\*</sup> Domestic products only for 1877 and 1878.

#### BRITISH HONDURAS.

and specie, from the several countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
538, 488	885, 878	5 <del>6</del> 7, 294	527, 796	591, 290	714, 150	638, 012	553, 386
340, 200	290, 142	821, 7 <b>32</b>	397, 062	498, 275	452, 735	409, 733	450, 835
<b>36</b> , 808	2, 959	24, 786	8, 262	Entered wit	h " all other	conntries."	26, 465
11, 907	<b>93, 79</b> 8	208, 496	<b>39, 85</b> 2	60, 600	106, 397	79, 107	199, 397
8, 248	4, 754	503	7, 829	14, 246	71, 583	60, 838	44, 697
930, 646	777, 031	1, 152, 811	980, 801	1, 164, 411	1, 344, 865	1, 187, 690	1, 274, 280

## bullion and specie, to the several countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
458, 780	572, <b>994</b>	571, 370	668, 298	660, 890	887, 427	1, 0 <b>25</b> , 1 <b>6</b> 2	708, 866
155, 471	221, 616	279, 299	260, 782	327, 475	253, 071	260, 185	25 <b>8, 2</b> 40
13, 608	87, 423	131, 137	66, 641	Entered wit	h "all other	countries."	<b>35, 58</b> 5
9	79, 704	227, 666	206, 657	171, 535	851, 718	202, 433	211, 817
8, 826	894	19, 408		103, 203	22, 130	99, 466	6, 893
* 636, 694	912, 130	1, 228, 875	1, 202, 378	1, 263, 103	1, 514, 846	1, 587, 246	1, 221, 401

## BRITISH HONDURAS-Continued.

# Quantities and value of principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Beef and pork					
Cattle	1, 287 21, 870	1, 786 18, 954	1, 378 13, 608	1, <b>252</b> 12, <b>8</b> 50	1, 351 12, 122
Coffee	. 76, 214 11, 664	65, 333 10, 206	451, 67 6, 804	46, 779 5, 832	44, 050 5, 846
Cotton goods dollars. Drapery dollars.			••••••		
Flourdollars  Hardwaredollars  Leather and manufactures ofdollars			•••••••		
Lumber		1, 041, 481 85, 478	908, <b>67</b> 0 80, 182	589, 950 19, 926	<b>624</b> , 537 21, 384
Malt liquors	16, 330 16, 038	10, <b>9</b> 52 10, <b>69</b> 2	8, 748	8, 543 8, 2 <b>62</b>	8, <b>904</b> 8, 748
Spirite { gallons dollars	. 15, 168 11, 178	18, 991 10, 206	11, 526 14, 094	12, 964 28, 188	10, <b>25</b> 3 22, <b>3</b> 56
Tobacco	. 71, 927 13, 122	78, 593 8, 608	72, 955 13, 122	55, 229 10, 206	<b>6</b> 5, 705 11, 178
Wines $\left\{ \begin{array}{ll} \mbox{gallons} \\ \mbox{dollars} \end{array} \right.$	7, 902 21, 870	4, 313 12, 636	10, 130 16, 526	4, 154 7, 290	7, 267 10, <b>69</b> 2
All other articlesdollars.	. 1, 034, 281	760, 224	749, 126	702, 084	719, 921
TOTAL IMPORTSdollars.	. 1, 149, 949	867, 014	852, 060	794, 138	812, 747

# Quantities-and-value-of principal

Articles.	1873.	1874.	1875.	1876.	1877.
Cocoanuts	259, 980	362, 463	276, 767	881, 680	604, 899
	8, 790	5, 588	4, 306	4, 636	8, 748
Cedar	297, 540	249, 169	113, 513	18, 920	77, 582
	17, 982	7, 290	6, 861	957	3, 928
Logwood { tons } dollars	9, 657	10, <b>32</b> 0	9, 160	16, 071	16, <b>669</b>
	104, 136	143, 370	127, 832	243, 972	231, 836
Mahogany	8, 766, 894	6, 213, 784	2, 462, 336	1, 821, 307	8, 080, 807
	842, 630	377, 620	149, 688	101, 574	155, 982
Sugar	8, 019, 520	3, 357, 760	5, 187, 840	4, 518, 080	4, 827, 680
	111, 294	123, 930	157, 464	147, 258	150, 174
	7, 106	8, 401	5, 863	8, 598	54, 916
Total domestie producedollars Foreign producedollars	616, 938	665, 149	451, 003	506, 995	605, 084
	437, 648	504, 803	533, 205	496, 206	Not stated.
TOTAL DOMESTIC AND FOR- EIGN	1, 054, 586	1, 169, 452	984, 208	1, 008, 201	

## BRITISH HONDURAS-Continued.

# imported, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
•••••	23, 814	<b>30, 6</b> 18	38, 894		••••••	••••••	
982 - 11, 525	18, 954	4, 860	16, 038				
113, <b>097</b> 13, <b>60</b> 8	61, 236	30, 618	18, 468		•••••		
• • • • • • • • • • • • • • • • • • • •	136, 566 62, 208	93, 798 70, <b>4</b> 70	231, 822 37, 422			••••••••	
• • • • • • • • • • • • • • • • • • • •	52, 974 15, 066 21, 884	51, 516 82, 562 20, 898	61, 722 41, 310 <b>36, 4</b> 50			-	
682, 065 23, 328	13, 122	13, 608	· 18, 468			•••••••	
10, 918 10, <b>69</b> 2	12, 636 89, 866	19, 440 19, 926	10, 206 29, 646	•••••••••	•••••••	•••••••	••••••
6, 377 14, 094	16, 038	16, 135	18, 954		•••••		
70, <b>82</b> 0 12, 150	8, 748	9, 234	10, 692		••••••	•••••••	
4, 800 11, 664	11, 664	12, 150	12, 636			••••••	
838, 585	283, 285	626, 978	298, 573			••••••	
930, 646	777, 031	1, 152, 811	980, 801	1, 164, 411	1, 344, 865	1, 187, 690	1, 274, 280

# articles of domestic produce-exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
698, 164 10, 206	919, 100 13, 122	1, <b>623</b> , 031 26, 730	1, 421, 817 29, 646				••••••
87, 129 5, 346	304, 000 14, 774	241, 167 11, 664	199, 838 12, 150				•••••
15, 348 213, 354	14, 150 202, <b>66</b> 2	21, 233 350, 8 <b>9</b> 2	19, <b>6</b> 47 <b>3</b> 23, <b>6</b> 76	•••••			••••••
3, 146, 582 190, 998	<b>3, 198, 32</b> 5 <b>167, 67</b> 0	2, 196, 793 106, 774	2, 665, 729 153, 234				
3, 888, 640 135, 008 81, 082	4, 485, 936 116, 640 19, 804	6, 288, 352 203, 034 41, 101	4, 327, 680 187, 110 16, 936				
636, 694 Notalated.	534, 615 877, 515	740, 197 488, 678	724, 888 477, 490				
	912, 180	1, 228, 875	1, 202, 378	1, 263, 108	1, 514, 846	1, 587, 246	1, 221, 402

## BRITISH GUIANA.

# Value of imports, including bullion

Countries.	1878.	1874.	1875.	1876.	1677.
	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
United Kingdom	4, 541, 670	4, 628, 178	4, 506, 192	5, 188, 136	5, 248, 314
British West Indies	578 <b>, 966</b>	484, 056	448, 578	255, 636	365, 472
*Other British Possessions	1, 256, 796	<b>1,62</b> 0,810	1, 414, 280	1, 660, 176	2, 134, 512
United States	1, 703, 430	1, 890, 540	1, 778, 414	1, 877, 904	2, 406, 672
All other countries	500, <b>35</b> 8	<b>4</b> 80, <b>26</b> 5	786, 144	<b>655, 98</b> 0	682, 383
TOTAL IMPORTS	8, 576, 220	9, 103, 849	8, 928, 588	9, 637, 782	10, 837, 353

<sup>\*</sup>India and Canada, principally.

## Value of exports, including bullion

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollars.	Dollare.	Dollars.	Dollars.	Dollars.
United Kingdom	7, 462, 044	9, 424, 512	8, 480, 700	11, 335, 464	9, 499, 843
British West Indies	463, 158	190, 026	244, 458	<b>259,</b> 038	513, 216
*Other British Possessions	<b>337, 770</b>	404, 838	<b>865, 958</b>	<b>329,</b> 508	442, 260
United States	1, 825, 500	2, 638, 008	1, 409, 400	2, 199, 636	3, 566, 764
All other countries	688, 248	765, 149	857, 897	611, 237	<b>796,</b> 821
Total exports	10, 776, 720	13, 422, 533	11, 858, 413	14, 734, 883	14, 818, 903

<sup>\*</sup> Canada, chiefly.

#### BRITISH GUIANA.

# and specie, from the principal countries.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
Dollare.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
5, 806, 148	5, 208, 462	4, 869, 720	4, 052, 268	5, 901, 498	6, 152, 274	5, 340, 570	3, 519, 12 <b>6</b>
809, 096	<b>362, 070</b>	337, 770	432, 540	419, 518	253, 692	862, 650	242, 028
1, 819, 584	1, 745, 712	1, 811, 808	1, 599, 912	1, 354, 965	1, 705, 874	1, 497, 366	1, 396, 278
2, 580, 116	2, 038, 284	1, 978, 020	1, 933, 794	1, 885, 194	2, 052, 378	1, 521, 724	1, <b>67</b> 8, 155
<b>581</b> ; <b>26</b> 6	681, 591	735, 785	<b>652, 4</b> 31	643, 041	648, 407	495, 207	295, 890
10, 496, 210	10, 036, 119	9, 733, 103	8, 670, 945	10, 204, 216	10, 812, 125	9, 717, 517	7, 131, 477

## and specie, to the principal countries.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
9, 087, 228	10, 543, 284	8, 187, 156	8, 609, 004	9, 587, 264	7, 724, 400	8, 638, 164	6, 283, 980
1, 195, 074	349, 920	401, 436	814, 442	458, 784	375, 1 <b>92</b>	504, 954	<b>812, 984</b>
151, 146	866, 444	<b>334, 36</b> 8	393, 660	410, 670	490, 636	196, 440	113, 724
965, 682	1, 098, 019	2, 921, 846	2, 498, 526	4, 437, 666	5, 893, 722	1, 368, 576	1, 498, 824
787, 670	845, 078	877, 352	<b>807, 20</b> 2	749, 563	932, 028	576, 942	542, 487
1 12, 186, 800	13, 197, 500	12, 721, 658	12, 622, 834	15, 593, 947	15, 415, 978	11, 285, 076	8, 751, 999

<sup>†</sup> The total for 1878 in the table of exports of articles given as amounting to only \$11,214,780.

#### BRITISH GUIANA-Continued.

# Quantities and value of principal

Articles.	1873.	1874.	1875.	1876.	1877.
Butter	465, 543	428, <b>98</b> 3	309, 204	492, 797	648, 626
	131, 706	157, <b>95</b> 0	78, 732	105, 948	185, 594
Flour	97, 998	107, 161	116, 639	98, 366	100, 071
	659, 016	710, 046	686, 232	586, 602	805, <b>30</b> 2
Fish, dried { pounds dollars	9, 795, 744	10, 033, 744	7, 830, 144	10, 950, 272	10, 749, 536
	350, 892	390, 764	285, 768	385, 398	437, 400
Lumber	14, 614, 001	18, 045, 385	13, 166, 197	12, 359, 549	18, 949, 450
	243, 972	803, 750	• 267, 300	271, 188	395, 604
Machinerydollars Malt liquorsdollars	<b>304, 286</b> 252, 720	<b>290, 6</b> 28 <b>285, 768</b>	847, 004	486, 000 178, 848	<b>622, 080</b> 210, 438
Manure	872, 276	<b>888, 800</b>	514, 674	653, 184	527, 796
	135, 566	175, 443	117, 126	202, 662	240, 084
	184, 622	124, 416	61, 236	94, 770	110, 808
Pork	12, 858	13, 979	15, 087	14, 741	18, 752
	175, 502	233, 7 <b>6</b> 6	191, 484	132, 678	334, 854
Rice	32, 157, 337	35, 027, 185	36, 732, 610	52, 867, 360	43, 452, 320
	632, 286	978, 318	1, 087, 182	963, 252	1, 319, <b>9</b> 76
Snirita	54, 466	48, 196	<b>92</b> , 25 <b>4</b>	48, 872	65, 080
	130, 248	131, 766	<b>166, 3</b> 12	109, 836	134, 622
All other articlesdollars	5, 058, 042	4. 932, 481	5, 125, 638	5, 467, 416	5, 562, 795
TOTAL IMPORTSdollars	8, 576, 220	9, 103, 849	8, 928, 588	9, 637, 782	10, 837, 353

# Value of exports, including bullion

Articles.	1873.	1874.	1875.	1876.	1877.
Molasses { casks { dollars	18, 022	19, 105	14, 759	14, 418	20, 172
	265, 758	559, 872	385, 898	349, 920	530, 712
Rice { pounds { dollars	8, 167, 680	1, 959, 787	4, 918, 784	8, 292, 120	13, 029, 9 <b>20</b>
	212, 382	155, 034	422, 120	214, 326	453, 488
Rum { puncheons dollars	28, 690	30, 474	29, 394	36, 219	32, 725
	1, 785, 992	2, 863, 901	1, 745, 712	1, 905, 120	1, 393, 3 <b>6</b> 2
Sugar, raw	95, 724	99, 090	93, 938	120, 031	112, 700
	7, 907, 706	9, <b>6</b> 25, 230	8, 108, 424	11, 703, <b>366</b>	11, 72 <b>3, 292</b>
All other articlesdollars	<b>654</b> , 882	718, 493	696, 759	<b>562,</b> 151	718, 099
TOTAL EXPORTSdollars	10, 776, 720	13, 422, 533	11, 358, 413	14, 734, 883	14, 818, 903

\*The total exports to the several countries for 1878

BRITISH GUIANA-Continued.

imports, including bullion and specie.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1883.
630, 351	630, 193	610, 001	710, 125	737, 241	720, 232	715, 080	680, 89
127, 818	120, 042	134, 136	149, 202	<b>154,</b> 062	152, 604	134, 136	172, 95
137, 800	142, 146	120, 328	132, 585	103, 734	137, 420	135, 368	141, 450
1, 013, 796	759, 132	639, 576	<b>76</b> 3, 020	613, 322	611, 388	<b>5</b> 30, 712 <sup>1</sup>	621, 594
8, 172; 080	9, 165, 184	8, 779, 096	8, 655, 360	8, 802, 448	7, 906, 640	8, 471, 568	8, 353, 000
309, 096	348, 948	271, 674	264, 870	361, 098	489, 888	288, 084	251, 162
12, 218, 519	13, 606, 783	12, 011, 541	12, 551, 404	17, 672, 390	14, 997, 980	14, 428, 742	8, 414, 170
220, 158	233, 280	166, 698	170, 100	<b>267, 30</b> J	256, 122	2:9, 878	123 <b>, 93</b> 0
<b>659, 988</b>	615, 762	274, 590	289, 170	75 <b>8, 16</b> 0	716, 810	8×7, 436	224, 53:
241, 056	175, <del>44</del> 6	145, 800	142, 884	163, 296	201, 204	158, 436	103, 03:
540, 432	512, 730	<b>55</b> 0, 152	546, 264	591, 462	739, 132	428, 166	377, 700
260, 496	187, 596	166, 698	158, 436	198, 288	223, 560	172, 316	161, 35
97, 200	87, 480	111, 780	124, 416	79, 704	117, 126	87, 480	55, 89
19, 416	16, 897	15, 469	14, 848	12, 811	19, 024	16, 307	22, 03
219, 186	186, 138	213, 840	251, 262	267, 786	<b>34</b> 3, 602	239, 59ਖ਼	278, 964
44, 348, 430	39, 022, 400	45, 260, 926	49, 888, 088	43, 964, 091	50, 548, 416	40, 889, 828	50, 572, 79
1, 347, 192	1, 241, 244	1, 835, 528	1, 171, 260	<b>996,</b> 800	1, 019, 628	1, 063, 368	1, 085, 286
61, 220	45, 088	40, 957	24, 821	34, 928	49, 670	30, 910	17, 35
123, 930	129, 276	111, 294	81, 648	117, 126	119, 070	98, 658	53, 46
4, 461, 062	5, 439, 045	5, 611, 837	4, 558, 413	5, 636, 312	5, 821, 994	5, 399, 248	3, 671, 556
10, 496, 210	10, 036, 119	9, 733, 103	8, 670, 945	10, 204, 216	10, 812, 128	9, 717, 517	7, 131, 47

# and specie, to the principal countries.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
18, 790	16, 161	17, 700	15, 740	18, 848	20, 772	12, 854	19, 362
422, 334	392, 688	<b>375, 192</b>	<b>389, 77</b> 2	388, 884	506, 412	234, 252	168, 156
6, 509, 120	5, 118, 252	8, 438, 540	6, 709, 627	9, 588, 641	9, 265, 700	1, 132, 259	10, 035, 338
240, 570	1 <b>66,</b> 212	258, 552	170, 586	235, 710	223, 560	28, 674	202, 102
26, 054	30, 490	24, 675	23, 585	29, 220	26, 514	83, 400	28, 353
1, 258, 740	1, 481, 814	899, 506	1, 393, 156	1, 449, 788	1, 288, 872	1, 217, <b>4</b> 30	1, 004, 56 <b>2</b>
86, 994	106, 866	111, 551	10 <b>4, 62</b> 5	139, 187	129, 585	189, <b>246</b>	106, 732
8, 678, 502	10, 388, 250	10, 829, 930	<b>9, 960, 084</b>	12, 662, 244	12, 867, 590	8, 85 <b>9</b> , 780	6, 780, 128
614, <b>6</b> 34	768, 536	858, 578	709, 236	857, 371	529, 544	944, 940	647, 051
*11, 214, 780	13, 197, 500	12, 721, 658	12, 622, 834	15, 593, 947	15, 415, 978	11, 285, 076	8, 751, 999

for 1878 is given in the official returns as amounting to \$12,186,800.

73—No. 85——9

## BRITISH WEST INDIES.

# Value of imports, including bullion and

Countaies.	1873.	1874.	1875.	1876.	1877.
Jamaica. United Kingdom British North America	Dollars. 5, 080, 158 969, 084	Dollare. 4, 940, 676 1, 084, 206	Dollars. 4, 697, 190 910, 764	Dollars. 4, 704, 480 950, 130	<i>Dollars.</i> 4, 048, 380 938, 466
* British West Indies	50, 544	84, 020	84, 506	17, 982	81, 104
	129, 276	43, 254	84, 078	83, 106	122, 472
Germany	34, 506	52, 488	60, 264	61, 236	30, 132
France	30, 618	59, 292	70, 956	104, 976	86, 022
United StatesForeign West Indies	2, 075, 706	2, 203, 038	2, 624, 886	2, 273, 984	2, 202, 066
	46, 170	42, 7 <b>6</b> 8	51, 030	24, 300	22, 842
All other	6, 906	107, 503	19, 834	43, 021	62, 888
TOTAL IMPORTS	8, 422, 968	8, 567, 305	8. 553, 508	8, 263, 215	7, 544, 372
Barbadoes.					
United Kingdom	1, 774, 872	1, 870, 128	2, 153, 466	1, 908, 522	2, 149, 578
	380, 052	392, 202	450, 030	<b>340, 60</b> 8	395, 604
British West Indies	253, 206	177, 890	173, 502	1 <b>6</b> 3, 782	179, 923
	200, 718	93, 798	126, 846	124, <b>4</b> 16	146, 286
Foreign West IndiesUnited States	68, 526	30, 132	44, 226	71, 928	44, 712
	2, 358, 558	<b>2,</b> 223, 450	2, 348, 352	2, 149, 092	2, 209, 356
PeruArgentine Republic	630, 342 68, 040	121, 986 17, <b>49</b> 6	308, 610 55, 890	104, 490 17, 496	281, 394
All other countries	67, 222	85, 283	110, 288	114, 677	154, 503
TOTAL IMPORTS	5, 801, 536	5, 011, 865	5, 771, 216	4, 995, 011	5, 561, 356
Trinidad.					
United KingdomBritish India	2, 732, 778 314, 442	2, 374, 596 257, 580	2, 583, 576 442, 746	2, 778, 462 407, 754	<b>2, 395, 008</b> 377, 136
British North AmericaBritish West Indies	292, 572	835, 540	281, 394	875, <b>6</b> 78	41 <b>6,</b> 986
	585, 144	573, 966	424, 278	433, <b>99</b> 8	614, 790
France French West Indies	317, 844	355, <b>7</b> 52	416, 502	474, 822	431, 56x
	36, 936	<b>68, 94</b> 0	72, 414	50, 544	74, 844
Portuguese Possessions	8, 718	3, 791	5, 054	10, <b>69</b> 2	8, 748
	<b>6</b> 0, 750	61, 236	55, 890	37, 422	63, 660
Spanish West Indies	10, <b>69</b> 2	13, <b>6</b> 08	25, 272	16, 524	23, <b>32</b> 8
United States	<b>934, 57</b> 8	1, 306, 854	1, 353, 196	1, 471, 122	1, 758, 834
VenezuelaAll other	1, 046, 358	1, 113, 426	1, 515, 834	1, 820, 556	1, 972, 188
	101, 132	62, 557	151, 833	220, 488	166, 008
TOTAL IMPORTS	6, 436, 944	6, 526, 946	7, 327, 989	8, 098, 062	8, 303, 100

<sup>\*</sup>Statistics of imports and exports by countries are

BRITISH WEST INDIES.

specie, from the principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 8, 679, 506 1, 011, 852	Dollars. 3, 834, 474 914, 166	Dollars. 3, 779, 136 834, 948	<i>Dollars</i> . <b>3, 140, 046</b> 716, 364	<b>Dollars.</b> 3, 530, 804 717, 822	Dollars. 4, 577, 148 832, 032	Dollars. 4, 368, 654 851, 472	Dollars. 3, 699, 43: 861, 192
52, 488	23, 328	16, 038	28, 188	28, 188	33, 324	47, 628	<b>6</b> 9, 984
<b>69, 9</b> 84	<b>59, 29</b> 2	112, 266	158, <b>436</b>	117, 126	95, 742	133, 650	<b>94,</b> 770
31, 104	91, 104	16, 038	7, 776	14, 094	9, <b>23</b> 8	126	437
78, 246	<b>49</b> , 572	40, 824	21, 384	22, 356	19, 926	<b>25</b> , 272	22, 35
2, 288, 574	2, 056, 266	2, 304, 126	2, 671, 542	1, 959, 552	2, 057, 724	2, 048, 976	2, 256, <b>69</b> 6
26, 730	9, 720	5, 832	4, 228	6, 804	5, 346	6, 318	10, 206
16, 135	70, 150	<b>6</b> 0, <b>264</b>	20, 412	28, 480	106, 446	44, 916	64, 030
7, 254, 619	6, 548, 072	7, 169, 472	6, 768, 376	6, 424, 726	7, 736, 926	7, 527, 012	7, 079, 105
1, 707, 804	1, 805, 490	2, 164, 158	2, 117, 988	2, 143, 746	2, 239, 974	2, 214, 216	1, 513, 890
395, 118	486, 486	508, 842	493, 776	441, 774	438, 372	498, 636	420, 390
179, 771	155, 520	178, 362	216, 270	218, 700	178, 3 <b>62</b>	163, 664	168, 156
127, 818	119, 556	171, 072	171, 558	231, 822	163, 782	285, 768	126, 846
64, 152	42, 768	28, 188	86, 450	45, 198	71, <b>442</b>	54, 432	63, 665
2, 702, 160	2, 176, 794	2, 153, 466	2, 193, 804	2, 168, 532	2, 195, <b>26</b> 2	2, 124, 792	1, 672, 326
47, <b>628</b> 28, <b>6</b> 74	21, 870	274, 104 18, 954	8, 2 <b>6</b> 2	158, <b>92</b> 2 14	63	19, 440	40, 824
106, 157	<b>165, 23</b> 0	192, 631	201, 267	242, 826	327, 669	<b>258, 38</b> 0	322 <b>, 6</b> 56
5, 350, 282	4, 978, 714	5, 689, 777	5, 489, 875	5, 651, 534	5, 614, 926	5, 619, 278	4, 328, 753
3, 127, 410	8, 760, 668	4, 082, 400	4, 026, 024	<b>3</b> , 928, 824	4, 266, 594	4, 310, 820	3, 181, 842
563, 760	629, 856	546, 750	298, 404	502, 038	451, 494	422, 820	262, 440
843, 602	889, 772	390, 744	350, 892	293, 058	<b>265</b> , 842	298, 890	278, 132
512, 244	449, 550	351, 378	375, 192	253, 206	447, 120	513, 108	449, 550
476, 766	755, 730	855, 846	<b>6</b> 34, 716	624, 024	508, 356	766, 422	<b>414,</b> 558
50, 544	43, 740	273, 618	<b>39,</b> 852	24, 786	28, 188	35, 478	<b>46,</b> 170
81, 162	20, 412	12, 150	51, 030	12, <b>63</b> 6	19, 926	44, 712	23, 814
	107, 892	90, 396	91, 854	<b>9</b> 5, 742	81, 648	71, 246	46, 656
9, 720	14, 094	57, 348	23, 328	23, 328	31, 590	25, 272	<b>52, 488</b>
1, <b>665, 6</b> 08	1, 787, 508	1,903, 366	1, 933, 794	1, 958, 560	2, 130, 138	2, 068, 416	1, 917, 270
2, 185, 056	2, 553, 930	2, 760, 966	2, 768, 742	8, 648, 402	4, 443, 494	6, 150, 330	3, 832, 110
224, 937	291, 945	254, 634	228, 060	298, 380	267, 897	280, 094	1, 365, 553
9, 240, 809	10, 805, 097	11, 579, 596	10, 821, 888	11, 663, 004	12, 942, 287	14, 987, 608	11, 865, 583

given only for Jamaica, Barbadoes, and Trinidad.

Value of exports, including bullion and

Countries.	1873.	1874.	1875.	1876.	1877.
Jamaica. United Kingdom	Dollars. 4, 854, 168	Dollars. 5, 547, 690	<b>Dollars.</b> 5, 608, 440	Dollars. 5, 967, 008	Dollars. 5, 633, 226
British North America	22, 356	38, 880	33, 048	17, 010	3, 892
British West Indies	52, 002	79, 704	78, 24 <b>6</b>	<b>69, 498</b>	53, 946
Germany	97, 200	102, 546	78, 732	130, 734	70, 956
France	4, 627	58, 806	45, 198	93, 798	28, 674
United States	501, 096	748, 038	792, 666	740, 178	1, 073, 574
Foreign West Indies	200, 718	65, 124	52, 002	110, 322	91, 3 <b>C</b> 8
Hayti	122, 472	176, 904	77, 760	141, 912	44, 226
All other	103, 374	190, 817	88, 865	<b>9</b> 2, 233	89, <b>269</b>
TOTAL EXPORTS	5, 958, 013	7, 008, 509	6, 854, 957	7, 862, 693	7, 089, 131
Barbadoes.					
United Kingdom	2, 290, 032	2, 714, 796	8, 802, 464	2, 229, 282	2, 356, 128
British North America	329, 022	443, 232	582, 714	356, 724	<b>249, 3</b> 18
British West Indies	1, 329, 210	924, 858	1, 021, 572	1, 030, 432	<b>834, 94</b> 8
British Guiana	231, 336	233, 766	286, 254	165, 240	180, 792
Foreign West Indies	159, 894	147, 744	121, 986	86, 994	90, 882
United States	610, 416	1, 009, 422	1, 294, 704	<b>786, 34</b> 8	1, 592, 622
All other	27, 138	70, 310	58, 869	31, 298	31, 162
TOTAL EXPORTS	4, 977, 048	5, 544, 128	7, 168, 063	4, 696, 318	5, 335, 852
Trinidad.				<del></del>	
United Kingdom	6, 707, 772	4, 765, 230	5, 931, 144	6, 067, 224	6, 884, 676
British North America	24, 300	86, 994	60, 750	51, 516	54, 432
British West Indies	191, 484	90, 882	119, 566	181, 278	188, 568
France	<b>2</b> 39, 112	463, 158	310, 554	431, 082	568, 620
French West Indies	58, 320	53, 946	55, 890	80, 670	42, 768
Spain	10, 206	51, 030	56, 862	4, 850	5, 832
Spanish West Indies	55, 404		5, 832	5, 346	9, 525
United States	258, 552	341, 658	524, 394	422, 334	954, 504
Venezuela	465, 588	542, 376	587, 574	595, 350	1, 228, 122
All other countries	414, 631	468, 314	245, 333	114, 318	288, 092
TOTAL EXPORTS	8, 425, 369	6, 863, 588	7, 897, 899	7, 953, 968	10, 175, 189

specie, to the principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 4, 639, 356	Dollars. 4, 833, 756	Dollars. 4, 948, 452	<i>Dollars.</i> 3, 806, 352	Dollars. 4, 703, 938	<i>Do<b>Ųars.</b></i> 3, 889, 458	Dollars. 3, 127, 896	<b>Dollars</b> . 2, 613, 708
3, 688	69, 498	381, 024	356, 724	971, 028	1, 190, 214	965, 682	<b>319</b> , 788
65, 610	241, 542	115, 6 <b>6</b> 8	138, 024	86, 508	145, 800	<b>*</b> 262, <b>9</b> 26	151, <b>63</b> 2
31, 104	50, 058	<b>64, 63</b> 8	65, 124	85, 050	55, 890	77, 760	161, 838
74, 844	88, 452	111, 294	81, 162	87, 480	113, 238	85, 050	128, 444
<b>832,</b> 518	983, 608	1, 478, 412	1, 086, 696	1, 339, 902	1, 410, 858	2, 244, 834	2, 893, 158
<b>169,</b> 1 <b>2</b> 8	198. 774	80, 190	71, 928	47, 142	98, 172	12, 150	17, 010
29, 160	10, 524	24, 786	31, 590	10, 692	28, 188	41, 796	8, 748
<b>88, 6</b> 18	115, 588	148, 614	90, 367	194, 282	209, 694	894, 093	581, 363
5, 884, 026	6. 597, 30C	7, 353, 078	5, 727, 967	7, 528, 022	7, 141, 512	7, 212, 187	6, 870, 089
<del></del>							
2, 191, 860	2, 914, 542	2, 449, 926	2. 209, 356	• 2, 475, 198	2, 142, 288	2, 320, 650	1, 666, 950
504, 468	1, 011, 366	807, 732	1, 008, 936	1, 278, 666	532, 656	1, 271, <b>86</b> 2	559, 386
919, 644	791, 208	773, 712	719,280	695, 952	657, 052	<b>6</b> 30, <b>82</b> 8	558, 414
183, 222	189, 054	143, 370	180, 306	195, 858	121, 014	229, 892	225, 504
62, 694	72, 900	55, 890	56, 862	<b>26</b> , 2 <b>44</b>	20, 898	56, 862	<b>49</b> , 08g
1, 194, 588	1, 038, 096	1, 407, 942	1, 330, 668	1, 087, 182	1, 980, 450	1, 822, 500	1, 801, 116
154, 597	102, 342	30, 079	86, 746	40, 814	91, 153	77, 658	18, 472
5, 241, 073	6, 119, 508	5, 668, 651	5, 542, 154	5, 799, 414	5, 545, 511	6, 409, 752	4, 878, 928
6, 058, 476	7, 098, 516	5, 656, 068	4, 840, 074	5, 231, 790	8, 954, 096	<b>4, 195, 6</b> 38	5, 765, 904
72, 900	115, 182	229, 892	410, <b>67</b> 0	531, 198	859, 640	295, 974	<b>69</b> , 012
116, 640	84, 078	109, 836	104, 976	116, 154	113, 724	138, 510	168, 158
514, 674	1, 372, 950	1, 510, 002	1, 572, 130	2, 547, 612	3, 086, 586	<b>3, 906, 46</b> 8	899, 586
47, 142	34, 020	81, 648	44, 226	105, 948	· 128, 846	199, 260	191, 970
4, 461		6, 318	11, 664	27, 216	49, 086	53, 946	21, 870
		150	49	5, 832	5, 346	1, 078	183
820, 368	503, 010	1, 272, 834	941, 382	1, 661, 634	3, 482, 190	2, 955, 852	2, 743, 470
1, 229, 094	1, 629, 558	1, 553, 742	2, 112, 156	1, 533, 330	1, 725, 786	1, 486, 188	854, 888
74, 271	169, 347	201, 598	164, 304	156, 166	151, 916	227, 959	204, 248
8, 938, 026	11, 006, 661	10, 621, 588	10, 201, 631	11, 916, 880	13, 057, 216	13, 460, 873	10, 918, 787

† Including Guiana.

Quantities and value of imports,

	<u> </u>				· · · · · · · · · · · · · · · · · · ·
Articles.	1873.	1874.	1875.	1876.	1877.
Jamaica.					
Ale and beer	288, 330	282, 188	275, 228	265, 629	220, 916
	210, <b>43</b> 8	205, 578	1 <b>9</b> 2, <b>4</b> 56	285, 652	153, 576
Bread	874, 048	861, 616	988, 064	820, 736	726, 096
	52, 974	52, 002	30, 964	49, 572	40, 824
Butter { pounds dollars	546, 008	508, 896	543, 872	528, 080	556, 976
	177, 390	170, 58 <b>6</b>	176, 418	171, 072	167, 184
Coal	44, 819	50, 159	35, 152	37, 236	31, <b>66</b> 3
	486, 000	527, 310	334, 554	306, 666	254, 664
Corn meal	18, <b>39</b> 3	19, 119	28, 780	19, <b>92</b> 8	12, 280
	8 <b>9</b> , 910	<b>99, 6</b> 30	144, 342	101, 088	59, 778
Cotton manufacturesdollars	896, 184	972, 486	1, 043, 442	1, 267, 002	1, 036, 638
Fish: Dried	10, 203, 760	11, 645, 880	9, 395, 712	10, 077, 648	10, 101, 504
	496, 206	603, 126	492, 318	538, 002	489, 885
Wet	56, 600	54, 398	47, 754	51, 343	61, 169
	329, 508	331, 454	845, 540	847, 004	407, 754
Flour { barrels dollars	98, 886	103, 086	140, 801	126, 405	97, 1 <b>6</b> 5
	892, 782	<b>9</b> 06, 876	1, 180, 494	905, 904	778, 086
Haberdasherydollars Hardwaredollars Linen manufaçturesdollars	411, 700	728, 514	487, 944	420, 876	386, 370
	892, 688	476, 222	320, 760	320, 274	310, 788
	254, 178	271, 671	169, 128	160, 380	121, 500
Pork, salted { barrels dollars	7, 687	8, 715	7, 736	7, 778	7, 8 <b>69</b>
	168, 286	193, 428	166, 212	179, 334	172, 044
Rice	8, 389, 612	7, 526, 4; 0	10, 501, 349	8, 544, 153	7, 725, 198
	285, 283	256, 122	848, 948	275, 076	243, 972
Soap { pounds dollars	2, 435, 570	2, 382, 700	2, 478, 014	2, 517, 581	<b>2,</b> 704, <b>6</b> 09
	147, 744	144, 828	148, 716	153, 090	161, 754
Woolensdollarsdollars	3, 131, 692	2, 627, 472	2, 970, 972	198, 288 2, 583, 935	164, 754 2, 582, 801
TOTAL FOR JAMAICAdollars	8, 422, 963	8, 567, 305	8, 553, 508	8, 263, 215	7, 544, 372
Barbadoes.					
Butter { pounds dollars	597, 977	534, 345	612, 558	640. 479	863, 247
	145, 314	129, 762	148, 716	155, 520	209, 952
Corn and grain	286, 125	343, 481	382, <b>6</b> 55	282, 301	335, 543
	208, 808	250, 290	282, 852	205, 578	243, 972
Corn meal	<b>69, 735</b>	73, 403	65, 402	<b>6</b> 5, 281	65, 360
	271, 188	285, 282	234, 654	253, <b>69</b> 2	254, 178
Flour	117, 575	117, 293	112, 674	106, 126	80, 668
	714, 420	712, 476	684, 288	644, 922	<b>459,</b> 888
Fish, dried { quintals dollars	88, <b>90</b> 0	103, <b>688</b>	90, 877	78, <b>26</b> 9	92, 883
	<b>244, 45</b> 8	202, 778	264, 870	<b>2</b> 28, <b>4</b> 20	270, 702
Hardware and metalsdollars Linens and cottonsdollars	124, 902	174, 474	193, 428	167, 670	160, 646
	679, 914	783, 918	841, 752	756, 702	897, 156
${\color{red} \textbf{Lumber} \dots \qquad \left\{ \begin{array}{l} \textbf{feet} \dots \\ \textbf{dollare} \dots \end{array} \right.}$	9, 048, 693	8, 396, 818	8, 640, 512	5, 908, 967	7, 548, 499
	87, 966	80, 676	84, 078	57, 834	73, 386
Manure, guano	12, 443	3, 008	7, 386	6, 349	8, 704
	539, 940	131, 220	316, <b>3</b> 86	275, 076	38J, <b>05</b> 2
Meat, salted	3, 444, 820	2, 625, 530	2, 890, 972	3, 036, 022	3, 345, 880
	278, 966	212, 868	234, 252	245, 916	271, 188
Rice { pounds dollare	7, 588, 539	7, 640, 440	7, 799, 151	8, 158, 003	8, 625, 831
	184, 194	185, 7 <b>62</b>	189, 540	198, 288	209, 466

# STATISTICAL ABSTRACT.

#### BRITISH WEST INDIES-Continued.

# bullion and specie included.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
210, 987	196, 089	197, 170	155, 975	185, 560	192, 949	217, 064	204, 856
158, 576	142, 884	189, 968	128, 304	138, 510	157, 464	184, 680	174, 474
909, 552	801, 696	1, 090, 544	1, 347, 584	918, 024	1, 092, 112	1, 151, 584	1, 408, 064
44, 226	84, 992	51, 516	72, 414	43, 254	46, 656	46, 170	54, 918
599, 760	531, <b>216</b>	<b>524, 27</b> 2	612, <b>64</b> 0	503, 776	621, 376	614, 656	680, 064
145, 800	101, 088	105, <b>94</b> 8	130, 2 <b>4</b> 8	112, 266	138, 510	137, 538	138, 024
28, 1 <b>6</b> 5	27, 710	27, 355	22, <b>687</b>	41, 423	29, 379	47, 804	40, 174
215, 728	180, 306	185, 652	78, <b>7</b> 32	143, 856	105, 948	138, 024	138, 510
24, 701	14, 792	27, 441	65, 066	12, 615	15, 827	14, 154	24, 692
107, 893	61, 722	120, 042	260, 982	52, 002	65, 610	56, 862	95, 742
1, 004, 562	1, 005, 048	1, <b>393, 34</b> 8	849, 928	1, 225, 692	1, 694, 696	1, 466, 262	1, 166, 886
11, 207, 840	11, 018, 224	11, 581, 584	9, 613, 856	8, 742, 608	8, 767, 024	10, 854, 512	11, 857, 216
598, 266	561, 816	520, 806	437, 886	440, 316	502, 524	595, 826	610, <b>9</b> 02
59, 058	61, 440	50, 134	44, 821	45, 231	44, 795	44, 198	50, 5 <b>66</b>
396, 576	342, 630	261, 468	216, 275	218, 214	227, 448	268, 758	280, 422
106, 306	102, <b>9</b> 31	111, 752	155, 651	95, 526	103, 752	105, 512	126, 666
830, 57 <b>4</b>	725, <b>59</b> 8	80 <b>5</b> , 302	1, 059, 480	673, 110	719, 280	692, 550	799, 956
378, 108	394, 632	438, 372	349, 434	365, 958	409, 698	474, 336	442, 204
261, 608	202, 176	250, 094	205, 092	252, 720	237, 654	267, 780	226, 962
95, 256	76, 302	58, 806	53, 946	70, 470	57, 002	44, 712	83, 100
9, 047	10, 279	10, 059	9, <b>42</b> 6	6, 940	6, 010	6, 586	6, 538
142, 844	144, 828	157, 950	137, <b>5</b> 38	11 <b>4</b> , 606	106, 437	114, 210	111, 780
7, 580, 054	<b>6, 592, 969</b>	8, 857, <b>9</b> 79	12, 016, 510	8, 222, 361	8, 833, 080	7, 361, 108	· 8, 389, 152
289, 538	232, 808	301, 820	436, 914	299, 863	<b>30</b> 0, 848	350, 290	285, 282
2, 587, 235	2, 597, 820	2, 616, 100	1, 760, 017	1, 367, 088	2, <b>6</b> 82, 087	2, <b>695</b> , 985	2, 764, 167
142, 884	141, 912	139, 968	83, 592	59, 292	133, <b>6</b> 50	121, 500	121, 014
142, 984	111, 178	105, 462	98, 172	88, 938	81, 648	76, 788	119, 556
2, 654, 197	2, 088, 652	2, 183, 450	2, 169, 439	1, 625, 569	2, 742, 848	2, 587, <b>294</b>	2, 229, 367
7, 254, 619	6, 548, 072	7, 169, 472	6, 768, 376	6, 424, 726	7, 736, 926	7, 623, 590	7, 079, 105
<b>603</b> , 840	791, 685	760, 384	993, 442	825, 517	984, 810	958, 882	895, 389
195, 302	192, 456	184, 680	241, 542	200, 718	239, 112	232, 794	163, 296
<b>3</b> 84, <b>2</b> 83	331, <b>6</b> 09	403, 000	324, 987	394, 777	287, <b>6</b> 85	284, 512	333, 724
279, <b>9</b> 76	241, 542	293, 544	236, 682	287, 712	2 <b>6</b> 2, <b>44</b> 0	219, 186	260, 010
76, 245	58, <b>62</b> 0	59, 548	63, 675	43, 288	43, <b>6</b> 59	42, 145	48, 5 <b>60</b>
296, 460	227, 934	231, 336	247, 874	168, 156	169, 614	163, 782	276, 904
110, 3 <b>9</b> 2	75, 598	74, 454	81, 553	84, 660	84, 168	85, 819	72, 425
<b>664</b> , 880	458, 784	452, 466	495 <b>2</b> 34	514, 188	511, 272	521, <b>4</b> 78	<b>439, 88</b> 0
88, 701	90, 574	103, 510	103, 471	78, <b>64</b> 0	69, 850	<b>96, 868</b>	89, 753
258, 552	263, 898	801, 80 <b>6</b>	301, 806	229, 392	202, 176	282, 366	201, <b>9</b> 54
140, <b>94</b> 0	189, 482	120, 0 <b>62</b>	132, 192	156, 006	153, 576	134, 186	69, 012
<b>6</b> 87, 146	682, 344	717, 330	671, <b>6</b> 82	717, 822	7 <b>6</b> 9, 388	753, 786	623, 052
7, <b>965</b> , 210	9, 574, 621	7, 596, 025	8, 250, 088	10, 041, <b>63</b> 3	12, 862, 305	9, 919, 600	7, 098, 538
77, 274	116, 154	92, 340	100, 116	121, 986	150, 174	120, 528	103, 518
1, 142	981	9, 751	4, 800	6, 975	3, 915	2, 989	2, 487
49, 572	42, 768	421, 848	206, 064	302, 292	168, 156	129, 762	107, 802
4, 220, 066	3, 290, 315	4, 155, 239	2, 843, 774	2, 995, 679	3, 552, <b>679</b>	3, 903, 674	3, 705, 780
342, 630	266, 328	336, 798	230, 364	242, 514	287, 712	316, 386	227, <b>9</b> 34
8, 002, 183	8, 550, 403	10, 674, 410	12, 822, 810	13, 013, <b>274</b>	15, 294, 073	16, 147, 350	16, 136, 50 <u>2</u>
194, 400	<b>208, 008</b>	259, 524	262, 926	31 <b>6, 886</b>	871, 304	892, <b>202</b>	327, 078

## Quantities and value of imports,

Articles.	1678.	1874.	1875.	1876.	1877.
Barbadoes-Continued.					
Staves { number { dollars dollars dollars	8, 499, 089	5, 095, 707	5, 878, 879	2, 277, 220	8, 539, 841
	170, 100	247, 860	285, 282	110, 808	172, 044
	2, 151, 366	1, 614, 499	1, 991, 118	1, 694, 585	1, 928, 726
TOTAL FOR BARBADOES.dollars	5, 801, 536	5, 011, 865	5, 771, 216	4, 995, 011-	5, 561, 356
Trinided.					
Cottons, linens, and woolens*.dollars	756, 216	739, 692	825, 228	· <b>919, 026</b>	<b>799</b> , 470
Fish, dried	5, 409, 679	5, 423, 190	4, 391, 343	4, 911, 046	6, 114, 225
	221, 616	242, 514	177, 876	298, 904	327, 564
Floor { barrels } dollars	58, 477	56, 876	68, 912	` 68, 852	71, 756
	401, 922	848, 948	401, 922	<b>484, 9</b> 70	521, 964
Hardware and machinerydollars Leatherdollars	566, 190	877, 136	513, 216	410, 184	380, 052
	172, 580	180, 806	177, 876	<b>256, 60</b> 8	178, 3 <b>6</b> 2
Lumber, pine	8, 589, 178	9, 262, 710	10, 018, 211	8, 141, 636	10, 592, 752
	186, 624	199, 260	151, <b>63</b> 2	181, 706	161, 838
Meat, pickled, salted, dried, { pounds dollars	1, <b>529</b> , <b>205</b> <b>220</b> , 158	1, 699, 090 272, 160	1, <b>677</b> , <b>988</b> <b>287</b> , <b>226</b>	<b>2, 2</b> 56, 070 <b>442,</b> 746	1, 878, 110 372, 7 <b>6</b> 2
Rice	11, 991, 737 844, 088 2, 494, 153	10, 921, 432 319, 788	16, 317, 498 495, 720	15, 852, 446 481, 626	16, 118, 528 489, 402
•		2, 722, 971	2, 571, 758	2, 688, 956	2, 846, 721
Total merchandisedollarsdollars	5, 863, 497	5, 402, 775	5, 612, 454	6, 064, 726	6, 078, 135
	1, 078, 447	1, 124, 171	1, 625, 485	2, 033, 336	<b>2, 224, 97</b> 1
TOTAL FOR TRINIDADdollars	6, 436, 944	6, 526, 946	7, 327, 939	8, 098, 062	8, 803, 100
† RECAPITULATION.			نسطنتها		
Jamaicadollars	8, 422, 968	8, 567, 305	8, 558, 508	8, 263, 215	7, 544, 372
Barbadoesdollars	5, 801, 536	5, 011, 865	5, 771, 216	4, 995, 011	5, 561, 356
Trinidaddollarsdollars	6, 436, 944	6, 526, 946	7, <b>827</b> , 939	8, 098, 062	8, 303, 100
	889, 228	190, 512	211, 8 <b>9</b> 6	205, 578	18 <b>6, 6</b> 24
Turk's Islanddollarsdollars	2, 021	10, 692	9, 234	11, 178	15, 066
	189, 054	262, 440	364, 986	193, 914	192, 456
Saint Vincentdollars	364, 986	342, 144	288, 684	800, 348	314, 442
Grenadadollars	200, 232	229, 392	279, 450	284, 738	292, 572
Tobagodollars Saint Christopherdollars	88, 452	87, 966	129, 762	113, 238	154, 548
	867, 416	812, 984	299, 376	844, 080	330, 480
Nevisdollarsdollars	<b>69, 984</b>	54, 918	22, 556	55, 404	36, 450
	199, 746	250, 2 <b>9</b> 0	812, 012	229, 892	307, 638
Monserratdollarsdollars	18, <b>46</b> 8	84, 506	11, 178	31, 104	18, 954
	<b>90</b> , 882	82, 134	83, 592	83, 592	60, 264
Bermudadollars	881, 996	• 884, 912	293, 544	332, 910	302, 292
GRAND TOTAL IMPORTSdollars	22, 973, 913	22, 849, 006	23, 958, 933	23, 491, 764	23, 620, 620

<sup>\*</sup> For the year 1877 cottons only are given; for the year 1878 cottons and linens; for subsequent years † Details of imports are given only for Jamaica, Barbadoes, and Trinidad.

BRITISH WEST INDIES-Continued.

bullion and specie included—Continued.

1879.	1879.	1880.	1881.	1882.	1883.	1884	1885.
4, 669, 831	2, 641, 153	8, 693, 793	2, 454, 908	4, 773, 518	8, 632, 125	3, 306, 396	8, 258, 093
226, 962	129, 704	179, 304	119, 070	231, 822	176, 418	160, 866	158, 090
1,995, 188	'2, 004, 312	2, 098, 739	2, 164, 823	<b>2, 162, 54</b> 0	2, 153, 670	2, 19년, 103	1, 815, 183
5, 359, 282	4, 973, 714	5, 689, 777	5, 439, 875	5, 651, 534	5, 614, 962	5, 619, 875	4, 328, 753
902, 502	1, 524, 582	1, 794, 312	1, 626, 156	1, 590, 678	1, 544, 994	1, 570, 752	1, 146, 474
6, 205, 456	295, 002	7, 048, 940	6, 396, 336	5, 875, 600	5, 845, 250	8, 214, 015	8, 309, 750
271, 188		267, 786	262, 926	255, 150	274, 104	313, 470	287, 712
78, <b>6</b> 81	80, 021	76, 184	94, 078	83, 097	92, 496	92, 862	107, 211
<b>515, 646</b>	467, 046	552, 096	644, 923	612, 860	668, 736	660, 760	704, 214
522, 450	571, 050	653, 670	705, 186	585. 704	629, 856	845, 154	568, 134
193, 914	230 864	220, 158	203, 148	248, 846	246, 888	250, 290	178, 848
12, 383, 784	13, 469, 052	12, 306, 636	16, 504, 781	11, 545, 550	13, 074, 757	12, 346, 333	9, 367, 500
263, 898	403, 866	365, 472	403, 360	278, 478	322, 704	808, 124	219, 186
3, <b>09</b> 9, 719	3, 085, <b>036</b>	4, 168, 806	2, 707, 550	2, 832, 988	2, 759, 320	3, 028, 996	5, 423, 700
237, 168	220, 644	288, 684	210, 924	259, 524	256, 608	221, 616	289, 170
16, 749, 041	15, 899, 319	18, 726, 561 ;	18, 955, 942	20, 729, 300	21, 589, 500	19, 742, 708	21, 891, 978
580, 770	659, 998	758, 160	471, 906	526, 838	548, 208	493, 636	553, 554
3, 356, 856 6, 844, 392	4, 009, 927 8, 382, 479		3, 322, 966 7, 851, 514	8, 500, 483 7, 837, 061	3, 737, 165 8, 229, 263		7, 393, 586
2, 896, 417	2, 422, 618	2, 678, 754	2, 970, 374	8, 825, 943	4, 713, 024	6, 084, 560	8, 409, 997
9, 240, 800	10, 803, 097	11, 579, 596		11, 663, 004	12, 942, 287	14, 987, 608	10, 893, 583
<del></del>			<del></del>				
7, 254, 619	6, 548, 072	7, 169, 472	6, 768, 376	6, 424, 726	7, 736, 926	7, 527, 012	7, 079, 105
5, 539, 282	4, 978, 714	5, 689, 777	5, 439, 375	5, 651, 534	5, 614, 962	<b>5</b> , 619, 873	4, 328, 753
9, 240, 509	10, 805, 097	11, 5 <b>79, 596</b>	10, 821, 888	11, 663, 004	12, 942, 287	14, 987, 608	10, 8 <b>93</b> , 583
1 <b>9</b> 0, 026	201, 690	188, 5 <b>6</b> 8	172, 042	215, 298	260, 982	181, 278	243, 486
9, 720	12, 636	10, 208	17, 496	16, 038	15, 066	16, 038	18, 122
195, 858	210, 438	218, 214	294, 606	271, 188	<b>892, 20</b> 2	815, 414	203, 634
330, 480	391, 716	844, 088	301, 320	435, 456	870, 882	805, <b>694</b>	228, 420
278, 964	409, 212	327, 078	388, 800	385, 884	837, 284	<b>85</b> 8, <b>66</b> 8	807, 688
<b>72, 90</b> 0 <b>417, 474</b>	53, 946	82, 036	160, 866	118, 584	121, 500	62, 694	79, 218
	· 446, 634	375, 192	391, 230	417, 960	488, 916	495, 720	313, <b>95</b> 6
38, 880	51, 030	53, <del>9</del> 46	51, 516	84, 078	Entered w	ith Saint Ch	ristopher.
310, 068	<b>406, 296</b>	402, 894	364, 014	397, 848	419, 904	872, 276	299, 862
84, 992	22, 356	33, 048	26, 244	39, 852	62, 208	39, 366	33, 534
11, 178	96, 228	127, 332	124, 902	163, 782	150, 174	102, 060	91, 854
292, 482	277, 506	260, 982	290, 628	337, 284	300, 974	867, 584	329, 994
24, 207, 732	24, 906, 571	26, 812, 429	25, 523, 303	26, 622, 016	29, 213, 717	80, 750, 787	24, 446, 159

all textiles, wearing apparel, and haberdashery are included.

# Quantities and value of exports,

Articles.		1873.	1874.	1875.	1876.	1877.
Jamaica.						
	pounds	7, 199, 144	10, 851, 570	7, 136, 327	8, 707, 552	9, 532, 887
VIII	dollars	1, 040, 526	1, 643, 652	1, 064, 826	1, 812, 686	1, 312, 686
Fruit: Bananas	dollars	14, 094	31, 104	26, 730	64, 638	79, 218
	number	2, 501, 550	4, 476, 780	4, 075, 820	9, 764, 972	8, 238, 940
-	dollars	7, 776 81 <b>5, 6</b> 59	16, 524 1, 181, 789	16, 038 1, 490, 845	33, 048 1, 603, 764	28, 188 1, 097, 879
Ginger	dollars	70, 956	102, 546	129, 276	140, 485	96, 714
Pimento	pounds	6, 024, 551 177, 876	5, 761, 273 174, 960	6, 440, 049 195, 374	4, 474, 700 194, 400	6, 760, <b>69</b> 3 <b>\$29, 9</b> 99
Rum	gallons	1, 990, 280	2, 362, 492	2, 563, 080		2, 467, 880
S	dollars hogsheads	1, 172, 718 28, 428	1, 428, 554 28, 398	1, 559, 088 27, 847	1, 614, 978 29, 074	1, 505, 142 80, 569
Sugar, raw	dollars tons	2, 348, 838	2, 346, 408	2, 208, 384 80, 912	2, 005, 722	2, 575, 800
Wood, logwood	dollars	50, 411 503, 982	62, 803 716, 850	Not stated.	74, 9±2 1, 451, 196	46, 756 821, 82 <b>6</b>
All other articles	dollars	621, 647	548, 111	1, 665, 241	545, 540	339, 558
TOTAL FOR JAMAICA	.dollars	5, 958, 413	7, 008, 509	6, 854, 957	7, 362, 693	7, 089, 131
Barbadoes.	•	,				
Fish, dried	quintals		43, 498	42, 854	32, 240	37, 554
Flour	dollars barrels	<b>9</b> 8, <b>6</b> 85 80, 051	126, 846 67, 079	124, 902 70, 441	93, 798 59, 761	106, 920 41, 857
9	dollars	491, 832	407, 268	428, 166	363, 042	254, 178
Meat, salted	pounds dollars	2, 231, 091 180, 792	1, 523, 156 128, 304	1, 340, 350 109, 350	1, 465, 289 118, 584	1, 574, 641 127, 818
Molasses	puncheonsdollars	21, 088	28, 676	39, 086 304, 108	24, 135	31,828
Rice	pounds	461, 214 2, 719, 964	626, 940 1, 187, 216	2, 309, 766	524, 880 2, 155, 164	695, 953 2, 171, 407
_	dollara	66, 096 14, 445	28, 674 16, 801	55, 895 2, 638	52, 488 3, 179	52, 488 3, 847
Rum	dollars	5, 346	6, 318	1,604	1, 176	1,409
Sugar	hogsheads dollars	37, 523 2, 735, 208	47, 355 3, 452, 058	65, 122 4, 747, 734	38, 016 2, 771, 172	47, 400 2, 463, 180
All other articles	.dollars	937, 875	767, 720	836, 304	761, 178	631, 907
TOTAL FOR BARBADOES	.dollars	4, 977, 048	5, 544, 128	7, 168, 063	4, 686, 318	5, 335, 852
Trinidad.	_					
Cocoa	pounds dollars		11, 191, 431 1, 035, 666	7, 638, 790 775, 656	10, 742, 123 1, 261, 170	11, 133, 303 1, 367, 118
Molasses	galions	1, 624, 998	1, 697, 631	2, 423, 049	2, 004, 508	1, 464, 472
	dollars	180, 792 22, 360	205, 092 39, 761	343, 602 58, 968	243, 486 18, 167	237, 168 1, 182
Rum	dollars	13, 122	24, 300	28, 188	12, 636	2, 381
Sugar, raw	dollars	133, 489, 078 4, 732, 668	99, 739, 559 8, 250, 268	129, 884, 972 8, 944, 862	114, 968, 384 3, 104, 082	102, 713, 034 4, 492, 584
All other articles	.dollars	1, 545, 853	1, 358, 766	1, 805, 880	1, 683, 146	
Total merchandise Bullion and specie			5, 874, 092 989, 496	6, 898, 197 999, 702	6, 304, 520 1, 649, 448	
TOTAL FOR TRINIDAD.	.dollars	8, 425, 869	6, 863 588	7, 897, 899	7, 950, 968	10, 175, 139
RECAPITULATIO	<b>x.</b>					
Jamaica	dollars	5, 958, 013	7, 008, 509 5, 544, 128	6, 854, 957 7, 168, 063	7, 362, 693 4, 686, 318	7, 089, 131 5, 335, 852
Barbadoes			6, 863, 588	7, 897, 899	7, 953, 968	10, 175, 139
Bahamas		701, 076	632, 772	529, 254 128, 304	519, 048 153, 576	538, 974
Turk's Island	.dollars	730, 510	118, 098 713, 934	775, 170	658, 382	868, 4c2
Saint VincentGrenada	.dollars	1, 020, 114	974, 438 772, 254	1, 028, 936 832, 518	890, 838 867, 986	
Tobago	.dollara	<b>22</b> 0, 158	220,644	447, 120	387, 342	335, 826
Virgin Islands	.dollars	27, 702 874, 800	33, 534 710, 046	28, 188 682, 830	23, 328 758, 646	23, 328 715, 392
Nevis	.dollars	404, 352	293, 058	281, 301	265, 842	241,056
Antigua	.dollars	830, 088 178, 848	518, 562 160, 866	1, 210, 626 163, 296	695, 952 136, 566	1, 022, 544 156, 006
Dominica	.dollars	301, 320	329, 022	345, 060	373, 734	377, 622
Bermuda	.dollars	315, 414	396, 576	297, 918	862, 030	364, 400
GRAND TOTAL EXPORTS	.dollars	25, 798, 804	25, 290, 029	28, 671, 533	26, 096, 249	28, 913, 162

bullion, and specie included.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
9, 572, 914	10, 833, 960	10, 188, 894	9, 365, 382	7, 41R, 648	9, 448, 100	5, 415, 994	9, 033, 606
1, 832, 612	1, 211, 112	1, 237, 842	1, 124, 604	648, 810	780, 516	480, 168	764, 478
152, 118	159, 894	177, 596	110, 808	432, 054	455, 868	493, 720	631, 314
10, 246, 550	9, 424, 757	14, 609, 480	23, 026, 209	35, 456, 978	34, 152, 688	41, 639, 590	22, 614, 390
84, 992	82, 076	56, 863	97, 686	163, 782	182, 736	283, 388	154, 062
968, 603	769, 630	889, 847	779, 801	664, 412	836, 889	1, 359, 332	1, 379, 971
84, 078	88, 452	107, 892	75, 816	58, 320	79, 218	102, 546	107, 895
6, 195, 109	5, 861, 170	10, 215, 479	6, 058, 164	8, 514, 117	9, 551, 632	12, 372, 752	10, 680, 364
366, 444	885, 884	707, 616	416, 388	548, 208	499, 122	451, 008	285, 282
2, 173, 800	2, 155, 160	2, 230, 320	1, 574, 240	2, 72, 9040	2, 008, 565	2, 036, 030	
1, 036, 638	958, 878	982, 206	847, 584	1, 436, 616	1, 098, 360	1, 081, 836	2, 080, 471
26, 066	20, 151	32, 118	21, 056	38, 392	39, 785	*65, 904, 536	1, 137, 720
1, 842, 426 35, 157	2, 088, 846 55, 885	2, 419, 308 46, 325	1, 637, 834	<b>2, 985, 498</b> <b>30, 818</b>	2, 680, 776	2, 082, 024	*55, 968, 416 1, 495, 906
499, 122 535, 596	874, 800 797, 858	776, 628 887, 128	43, 555 671, 716 783, 031	446, 634 806, 100	29, 770 433, 998 930, 918	44, 927 655, 128 1, 662, 419	56, 608 742, 608 1, 531, 31
5, 884, 026	6, 597, 800	7, 353, 078	5, 727, 967	7, 528, 022	7, 141, 512	7, 212, 187	6, 870, 689
<b>29, 46</b> 2	<b>32</b> , 110	42, 491	49, 667	<b>32, 3</b> 80	10 784	23, 889	20.016
86, 022 57, 898	93, 798 45, 867	123, 930 33, 636	144, 828 35, 593	94, 284 40, 085	19, 754 57, 834 36, 568	69, 498 42, 163	39, 812 116, 154
848, 462 1, 648, 118	472, 878 1, 606, 328	204, 120	216, 270	243, 406	<b>222</b> , 102	256, 122	83, 491 203, 148
133, 650	130, 248	1, 538, 220	1, 087, 250	1, 135, 986	1, 084, <b>99</b> 5	1, 771, 263	809, 039
31, 078	33, 974	124, 416	87, 966	91, 834	87, <b>966</b>	99, 630	49, 086
679, 428	743, 094	31, 830 <b>69</b> 5, <b>9</b> 52	33, 521 732, 888	36, 805 794, 124	83, 089 723, 654	35, 679 780, 516	38, 256 591, 46:
2, 817, 622	1, 510, 847	3, 217, 119	8, 215, 515	1, 998, 455	4, 130, 066	4, 938, 687	7, 309, 333
56, 376	87, 422	78, 246	78, 246	48, 600	100, 116	120, 042	148, 236
5, 061	8, 631	5, 523	1, 414	2, 010	2, 585	8, 275	3, 984
1, 847	8, 159	1, 993	535	729	923	1, 215	1, 452
48, 510 8, 218, 066 717, 222	57, 306 4, 177, 856 461, <b>0</b> 53	54, 269 3, 956, 040 483, <b>95</b> 4	52, 236 3, 807, 810 478, 611	53, 735 3, 917, 160 609, 257	59, 179 3, 658, 122 694, 794	58, 074 4, 233, 546 849, 183	63, 196 8, 071, 034
5, 241, 073	6, 119, 508	5, 668, 651	5, 542, 154	5, 799, 414	5, 545, 511	6, 409, 752	698, 362 4, 878, 928
10, 902, 983	13, 376, 269	11, 715, 393	11, 473, 737	12, 240, 491	12, 830, 348	14, 669, 356	14, 904, 830
1, 633, 446	2, 883, 838	1, 564, 434	1, 409, 886	1, 753, 002	1, 990, 656	2, 103, 8 <b>94</b>	2, 050, 920
2, 185, 945	1, 777, 540	1, 599, 286	1, 417, 550	2, 067, 059	1, 992, 176	2, 245, 650	2, 416, 761
<b>26</b> 5, 856	190, 998	215, 784	227, 934	370, 332	360, 126	267, 300	222, 558
7, <b>244</b>	81, 454	31, 118	935	15, 265	17, 916	60, 507	78, 896
5, 346	41, 310	13, 608	503	7, 290	8, 748	82, 562	88, 394
16, 588, 721	149, <b>674</b> , 017	119, 581, 934	97, <b>6</b> 82, 267	123, 931, 724	1 <b>22</b> , 070, 784	136, 552, 804	189, 841, <b>69</b> 8
8, 502, 602	4, 045, 950	4, 170, 366	8, 344, 652	4, 253, 958	4, 306, 932	8, 121, 578	3, 327, 642
1, 477, 926	1, 942, 267	J, 963, 984	2, 126, 236	2, 020, 462	1, 884, 076	1, 767, 343	1, 841, 801
0, 884, <b>676</b>	8, 604, 363	7, 928, 176	7, 109, 213	8, 405, 044	8, 550, 538	7, 392, 677	7, 480, 823
2, 053, 850	2, 402, 298	2, 693, 412	3, 092, 418	3, 511, 836	4, 506, 678	5, 776, 596	3, 437, 964
8, 988, 026	11, 006, 661	10, 621, 588	10, 201, 631	11, 916, 880	13, 057, 216	13, 169, 273	10, 918, 787
5, 884, 026	6, 597, 800	7, 858, 078	5, 727, 967	7, 528, 022	7, 141, 512	7, 212, 187	6, 870, 681
5, 241, 078	6, 119, 508	5, 668, 651	5, 542, 154	5, 799, 414	5, 545, 511	6, 409, 752	4, 878, 928
8, 938, 026	11, 006, 661	10, 621, 588	10, 201, 631	11, 916, 880	13, 057, 216	13, 169, 273	10, 918, 787
693, 522	566, 306	590, 004	554, 526	783, 918	717, 336	594, 378	876, 256
130, 734 736, 290	86, 994 1, 024, 974	184, 622 946, 242	124, 416 818, 910	121, 014 1, 082, 322	160, 380	165, 240	150, 174
785, 376 725, 112	779, 058	772, 254	687, 176	742, 608	1, 039, 068 810, 648	709, 074 567, 648	589, 518 633, 248
<b>828</b> , 350	726, 084	834, 462	944, 298	895, 212	940, 410	1, 035, 666	866, 059
	342, 630	877, 186	406, 296	284, 252	233, 280	202, 176	186, 62
30, 618	25, 758	24, 786	25, 273	24, 300	24, 800	17, 010	23, 874
984, 150	856, 832	903, 960	1, 035, <b>6</b> 66	1, 270, 800	1, 225, <b>69</b> 2	<b>998, 730</b>	<b>967, 62</b> 6
148, 716 <b>977, 832</b>	368, 874 1, 298, 592	180, 792 1, 281, 096	188, 082 867, <b>99</b> 6	410, 670 1, 316, 088	Entered w 1, 079, 406		ristopher.
146, 772 411, 642	173, 502	141, 136	171, 072	185, 166	153, 690	156, 006	772, 744 79, 21
\$18, 830	858, 182	314, 442	268, 272	318, 330	317, 638	229, 878	255, 156
	837, 770	408, <b>24</b> 0	427, 194	530, 712	442, 746	430, 596	411, 156
26, 480, 569	80, 069, 025	30, 552, 489	27, 990, 929	38, 159, 798	<b>32, 888, 233</b>	32, 766, 722	28, 480, 04

CEYLON.

# Value of imports, including bullion and

Countries.	1878.	1874.	1875.	1876.	1877.
	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
United Kingdom	7, 460, 100	7, 285, 140	6, 887, 106	7, 980, 120	7, 832, 862
India	17, 283, 618	16, 056, 468	16, 003, 008	15, 873, 242	19, 867, 586
Maldive Islands	197, 802	172, 044	160, 380	182, 250	161, 352
Hong-Kong	174, 960	66, 096	108, 864	664, 848	75, <b>33</b> 0
Australasia	490, 160	633, 800	980, 748	499, 122	874, 706
France	97, 686	101, 574	149, 202	284, 788	114, 210
French Possessions	<b>99</b> 1, <b>44</b> 0	1, 830, 668	1, 748, 142	1, 593, 594	<b>550, 638</b>
Austria	••••				
United States	•••••	••••			
All other	<b>395, 614</b>	287,748	16, 176	7, 605	129, 125
TOTAL IMPORTS	27, 091, 380	25, 933, 538	26, 053, 626	27, 035, 519	28, 605. 809

# Value of exports, including bullion

Countries.	1873.	1874.	1875.	1876.	1877.
	Dollare.	Dollare.	Dollars.	Dollars.	Dollars.
United Kingdom	19, 712, 646	14, 527, 498	18, 025, 740	14, 479, 878	20, 661, 818
India	<b>3, 390, 386</b>	4, 233, 546	3, 386, 448	3, 492, 882	2, 829, 006
Maldive Islands	76, 788	116, 640	114, 210	157, 464	96, 228
Mauritius	<b>36, 45</b> 0	178, 362	142, 884	364	148, 230
Hong-Kong	12, 150	8, 518	30, 618	56, 862	12, 150
Australacia	819, 302	286, 254	224, 046	<b>320, 760</b>	874, 220
France	449, 064	753, 786	684, 784	950, 616	512, 244
French Possessions	153, 662	146, 286	116, 154	104, 004	<b>83, 59</b> 2
Austria	1, 005, 048	568, 620	2, 135, 970	1, 643, 652	2, 061, 612
Sues	55, 890	2, 901		685	1, 137
United States	833, 004	884, 912	813, 078	898, 034	<b>46</b> 3, 158
All other	892, 072	154, 592	450, 561	811, 931	<b>6</b> 05, 192
TOTAL EXPORTS	26, 436, 412	21, 856, 915	26, 124, 498	21, 916, 632	27, 848, 087

CEYLON.

specie, from the principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
0, 102, 480	5, 584, 626	7, 275, 906	5, 829, 570	5, 782, 428	<b>6, 257,</b> 250	6, 382, 638	5, 124, 440
16, 741, 728	17, 142, 192	14, 625, 684	14, 177, 592	14, 217, 930	14, 478, 202	15, 608, 862	14, 717, 052
122 <b>, 95</b> 8	156, 006	178, 848	1 <b>09</b> , 1 <b>2</b> 8	186, 624	184, 174	184, 145	218, 700
65, 124	<b>29, 16</b> 0 ′	16, 524	26, 730	26, 244	22, 356	14, 094	9, 234
353, 322	160, 694	157, 464	284, 310	140, 454	45, 684	28, 244	54, 432
93, 798	234, 252	202, 662	52, 002	45, 198	56, 948	82, 134	58, 020
547, 722	927, 724	1, 587, 762	<b>69</b> 3, 036	642, 492	783, 918	707, 616	180, 082
8, 305	14, 580	68, 526	111, 294	101, 088	82, 562	<b>79, 2</b> 18	67, 554
••••••			•••••	••••••	19, 270	44, 887	24, 819
116, 820	193, 820	252, 137	126, 200	100, 432	128, 967	254, 251	114, 055
24, 207, 257	24, 443, 054	24, 865, 518	21, 469, 862	21, 242, 890	12, 009, 331	23, 384, 069	20, 563, 418

# and specie, to principal countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
15, 139, 886	1 <b>7, 66</b> 8, 530	15, 795, 972	9, 810, 882	9, 810, 808	9, 151, 380	9, 004, 608	9, 506, 160
3, 454, 488	2, 466, 936	2, 858, 652	2, 509, 704	2, 638, 604	2, 555, 888	2, 151, 036	8, 154, 626
114, 210	150, 174	178, 848	160, 866	167, 184	154, 548	156, 006	151, 632
29, 646	157 <b>, 464</b>	84, 506	47, 142	28, 188	13, 608	18, 468	44, 226
22, 306	19, 440	18, 954	13, 122	5, 346	8, 748	8, 377	10, 206
258, 066	257, 094	379, 566	443, 718	360, 612	375, 192	<b>8</b> 70, 818	467, 582
604, 980	621, 108	784, 104	539, 460	. 475, 794	979, 290	971, 028	854, 388
95, 256	108, 864	196, 830	172, 044	148, 232	74, 844	81, 162	56, 862
1, 071, 680	1, 444, 392	1, 398, 222	1, 093, 014	1, 483, 294	924, 372	644, 922	611, 888
	53	1, 161	2, 911	4, 860	4, 833	11, 178	6, 804
400, 564	748, <b>92</b> 6	911, 786	1, 188, 212	914, 166	1, 024, 488	1, 068, 714	863, 136
288, 814	467, 178	490, 553	557, 869	991, 023	921, 483	882, 416	576, 396
21, 569, 346	24, 110, 159	28, 449, 104	16, 488, 444	16, 578, 111	16, 188, 174	15, 363, 733	16, 803, 456

#### CEYLON-Continued.

# Quantities and value of the principal articles

Articles.	1873.	1874.	1875.	1876.	1877.
Coal and coke	98, 720 1, 006, 992	98, 907 1, 076, 976	96, 602 924, 372	71, <b>6</b> 81 <b>642, 006</b>	97, 444 880, 146
(packages.	24, 814	24, 024	1, 355	1, 131	673
Cotton, manufactures { pices	1, 993, 721	2, 061, 830	1, 882, 095	2, 379, 076	1, 778, 163
( dollars	4, 208, 786	3, 824, 334	8, 558, 006	4, 339, 980	3, 272, 238
Cotton twistdollars	222, 588	130, 248	68, 040	91, 854	44,712
Cutlery and hardwaredollars	205, 092	206, 064	241,056	180, 508	294, 516
Curry stuffsdollars	246, 402	246, 596	204, 120	232, 308	300, 834
Fish, salted and dried { pounds	12, 114, 928	11, 148, 352	9, 748, 776	<b>9</b> , 810, 876	10, 444, 000
rish, sancou and dried { dollars}	525, 822	449, 550	396, 576	<b>399,</b> 006	421, 764
Grain:					
Paddy { bushels	1, 035, 178	987, 136	1, 055, 126	<b>736,</b> 848	801, 510
( donars	774, 758	675, 054	721, 224	503, 498	547, 722
Rice bushels.	5, 708, 142	5, 712, 175	5, 296, 192	5, 865, 644	6, 932, 150
dollars	9, 015, 786	8, 460, 606	7, 812, 936	8, 670, 726	10, 274, 040
Other, and flourdollars	431, 568	451, 494	509, 814	486, 000	700, 326
Harberdashery and millinerydollars	459, 756	423, 792	402, 894	420, 876	508, 842
Chumber	14, 749	12, 511	15, 392	17, 831	28, 958
Live stock, cattle	400, 950	819, 788	385, 398	117, 474	467, 048
Posma (assessmt calca) Spounds	20, 244, 224	20, 855, 184	20, 374, 592	19, 324, 256	21, 323, 232
Poonac (cocoanut cake) dollars	351, 378	339, 228	331, 452	814, 442	347, 004
All other articlesdollars	4, 767, 174	4, 649, 628	4, 866, 942	5, 659, 519	6, 843, 215
Total merchandisedollars	22, 597, 052	21, 253, 358	20, 422, 830	22, 358, 255	24, 905, 405
Bullion and specie dollars	4, 491, 328	4, 680, 180	5, 630, 71-6	4, 677, 264	3, 700, 404
TOTAL IMPORTSdollars	27, 091, 380	25, 933, 538	26, 053, 626	27, 035, 519	28, 6,5, 809

# Quantities and value of principal

Articles.	1873.	1874.	1875.	1876.	1877.
Areca nuts { pounds dollars dollars { pounds } cinnamon { dollars } dollars } dollars }	424, 558 15, 066	14, 540, 512 528, 282 11, 664 1, 132, 191 258, 066	10, 591, 504 409, 698 8, 263 1, 407, 010 820, 274	10, 170, 944 403, 380 6, 804 1, 356, 901 309, 096	6, 843, 804 250, 29 ) 40, 336 1, 443, 371 329, 022
Plantation { pounds } dollars } pounds } dollars } dollars }	18, 157, 932	71, 230, 046 13, 064, 166 10, 866, 240 1, 657, 746	91, 100, 912 18, 530, 208 12, 902, 460 2, 099, 520	65, 696, 693 14, 164, 956 9, 025, 520 1, 468, 692	100, 411, 805 21, 241, 116 9, 216, 472 1, 537, 218
Cotton manufactures { packages . pieces dollars	9, 313 482, 389 1, 443, 906	1, 434, 186	232 565, 113 1, 586, 790	361 436, 814 1, 253, 880	224 295, 982 835, 920
Cocoanut oil { pounds dollars }  Plumbago { pounds dollars }	12, 753, 664 689, 148 19, 807, 552 <b>71</b> 8, 794	16, 248, 720 823, 284 16, 793, 056 656, 100	13, 868, 288 702, 270 12, 322, 876 501, 066	23, 852, 752 1, 208, 682 13, 144, 432 534, 680	14, 891, 744 753, 256 10, 840, 704 441, 268
Spirits, arrack	124, 424 73, 872 360 451, 980 1, 506, 888	173, 468 80, 676 3, 970 471, 420 1, 453, 675	86, 709 32, 562 3, 339 349, 920 1, 124, 2::0	118, 886 69, 498 638 354, 780 1, 198, 706	
Total merchandisedollars Specie and bulliondollars	26, 137, 522 298, 890	20, 443, 235 913, 680	25, 668, 139 456, 354	20, 973, 792 942, 840	27, 720, 587 121, 500
Domestic productsdollars Foreign productsdollars	•••••			19, 178, 124 2, 738, 508	25, 932, 450 1, 915, <b>6</b> 37
TOTAL EXPORTSdollars	26, 436, 412	21, 356, 915	26, 124, 493	21, 916, 632	27, 848, 087

CEYLON—Continued.

# imported, including bullion and specie.

1878.	1879.	. 1880.	1881.	1882.	1883.	1884.	1885.
96, 449	79, 477	90, 819	116, 885	188, 411	219, 387	215, 644	925, 240
925, 830	737, 748	1, 004, 562	997, 272	1, 594, 566	1, 848, 258	1, 842, 858	1, 953, 664
414	474	742	520	761	534	1, 054	809
1, 291, 217	1, 713, 795	1, 961, 429	1, 619, 489	1, 630, 772	1, 681, 308	2, 180, 264	1, <b>304</b> , 851
2, 251, <b>63</b> 8	2, 558, 790	3, 211, 418	2, 336, 688	2, 060, 154	2, 243, 862	2, 539, 150	1, 503, 198
85, 964	61, 236	86, 022	50, 058	70, 218	80, 190	116, 640	55, 890
178, 848	158, 436	143, 370	108, 378	101, 088	103, 518	106, 920	105, 948
342, 770	268, 272	271, 188	226, 476	198, 858	209, 952	340, 686	279, 936
9, 455, 040	8, 324, 064	10, 124, 464	10, 239, 712	10, 208, 192	13, 482, 336	11, 381, 216	12, 239, 008
384, 912	338, 742	411, 642	416, 502	422, 820	548, 694	463, 158	579, 112
799, 161	1, 458, 083	1, 014, 958	1, 122, 433	805, 695	543, 751	683, 785	1, 041, 576
546, 264	996, 300	693, 522	766, 908	550, 638	371, 790	467, 532	711, 990
6, 668, 969	5, 954, 935	6, 094, 999	6, 030, 820	5, 757, 024	5, 746, 184	5, 490, 768	5, 780, 675
9, 875, 520	8, 737, 884	9, 025, 506	8, 930, 250	8, 524, 926	8, 50d, 888	8, 130, 780	8, 733, 906
562, 788	547, 722	570, 564	545, 292	512, 244	551, 610	567, 648	633, 258
399, 492	381, 510	481, 626	396, 090	360, 612	849, 920	362, 556	306, 180
17, 492	27, 483	11, 872	8, 683	9, 537	11, <del>9</del> 80	13, 461	10, 080
254, 664	495, 720	346, 798	176, 904	164, 268	276, 534	312, 012	228, 906
23, 586, 525	19, 856, 168	17, 996, 608	19, 197, 584	18, 891, 936	29, 688, 416	17, 426, 976	16, 884, 000
383, 940	323, 190	293, 058	312, 498	306, 666	336, 708	283, 338	260, 010
5, 314, 839	4, 577, 614	5, 051, 063	4, 391, 822	4, 148, 644	4, 164, 441	4, 279, 713	3, 230, 428
21, 457, 469	20, 183, 264	21, 590, 939	19, 655, 138	19, 024, 702	19, 594, 455	19, 812, 961	18, 524, 426
2, 749, 788	4, 259, 790	2, 774, 574	1, 814, 724	2, 215, 188	2, 414, 876	3, 571, 128	1, 978, 994
24, 207, 257	24, 443, 054	24, 365, 513	21, 469, 862	21, 242, 890	22, 009, 331	23, 384, 089	20, 563, 418

# exports, including bullion and specie.

1678.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
11, 899, 024	12, 926, 502	17, 714, 704	17, 585, 680	16, 167, 760	12, 988, 416	8, 758, 512	14, 487, 648
451, 494	482, 598	609, 444	525, 852	456, 840	414, 558	325, 620	590, 004
78, 246	236, 196	577, 868	576, 396	4, 753, 974	2, 047, 518	1, 891, 513	1, 8, 0, 836
1, <b>66</b> 5, <b>4</b> 81 379, 566	1, 314, 292 299, 376	1, 609, 548 366, 444	1, 819, 837 414, 558	1, 992, 604 453, 924	1, 236, 431 509, 328	1, 238, <b>6</b> 05 <b>5</b> 09, 814	<b>2,</b> 145, 257 <b>489, 8</b> 88
65, 734, 704	81, 237, 520	68, 526, 304	45, 608, 869	48, 070, <b>736</b>	32, 578, 448	82, 201, 120	83, 044, 256
14, 708, 818	17, 515, 440	14, 495, 922	9, 277, 254	7, 822, 170	5, 983, 708	5, 240, 052	5, 377, 104
<b>5, 238,</b> 244	6, 094, 368	5, 012, 336	8, 334, 128	3, 975, 888	1, 660, 176	1, 331, 232	- <b>2, 308, 4</b> 32
800, 442	842, 714	663,036	461, 214	371, 799	202, 662	185, 5 <del>94</del>	<b>234,</b> 738
178	171	240	135	186	350	225	82
355, 991	250, 389	284, 978	172, 245	158, 823	112, 475	71, 518	
<b>734</b> , 578	673, 506	641, 034	461, 700	380, 052	266, 814	104, 268	102, 548
19, 647, 376	24, 459, 568	39, 476, 610	22, 575, 392	23, 626, 648	30, 018, 784	43, 002, 960	29, 700, 496
994, 842	1, 238, 328	1, 998, 432	1, 143, 072	1, 196, 046	1, 975, 104	2, 170, 794	• •
9, 678, 008	18, 190, 440	23, 042, 656	29, 109, 808	29, 138, 592	29, 430, 576	20, 431, 712	21, 996, 688
385, 398	740, 178	937, 494	1, 184, 382	1, 185, 354	1, 195, 018	831, 060	! <b>894, 7</b> 26
128, 605	161, 033	147, 709	116, 424	148, 351	129, 827	140, 742	
45, 198	75, 330	62, 208	63, 666	99, 144	101, 574	118, 098	
9, 526	54, 518	97, 680	147, 258	269, 730	418, 446	654, 156	1, 296, 162
384, 428	91, 102	480, 168	424, 278	537, 030	424, 764	580, 770	597, 294
1, 858, 810	1, 440, 869	2, 015, 996	1, 242, 624	1, 330, 824	2, 337, 365	2, 052, 193	2, 616, 166
21, 031, 844	23, 690, 255	22, 975, 232	15, 922, 254	15, 856, 887	15, 557, 846	14, 679, 931	15, 628, 442
538, 002	419, 904	73, 872	566, 190	721, 224	630, 828	683, 802	679, 914
19, 504, 682	23, 618, 868	21, 785, 782	15, 329, 718				
2, 064, 664	1, 491, 791	1, 263, 372	1, 158, 726				
21, 569, 846	24, 110, 159	23, 049, 104	16, 488, 444	16, 578, 111	16, 188, 174	15, 363, 733	16, 303, 356

## BRITISH INDIA.

# Value of imports, merchandise, and

Countries.	1873.	1874.	1875.	1876.	1877.
Continent of Europe: United Kingdom		Dollars. 144, 622, 140 451, 980 63	Dollars. 170, 885. 282 460, 560	Dollars. 167, 781, 294 573, 480	Dollare. 192, 236, 814 578, 344
France Germany Holland	1, 838, 538	1, 756, 320 113, 724 68, 526	2, 007, 180 113, 724 58, 320	1, 054 3, 295, 080 114, 210 87, 480	8, 019 2, 877, 120 43, 740 35, 478
Italy	713, 934 2, 546	1, 644, 412 3, 222 15, 066	1, 859, 828 8, 748 25, 272	2, 560, 248 8, 748 51, 516	6, 637, 686 14, 590 69, 496
All other		33, 826	35, 546	ĺ	21, 196
Total from Europe		148, 709, 279			
Continent of Africa; Cape of Good Hope Mozambique Zanzibar	36, 936 (*)	17, 496 (*) 883, 062	87, 480 (°) 620, 622	9, 720 (*) 1, 232, 010	14, 580 (*) 1, 467, 231
Egypt	1. 458, 000	140, 940 2, 150, 550 5, 686	83, 106 2, 900, 934 52, 488	637, 146 3, 669, 780 48, 114	1, 293, 735 1, 282, 556 48, 116
All other			2, 464	22, 439	105, 87
Total from Africa	3, 204, 198	3, 197, 734	3, 747, 094	5, 619, 209	4, 212, 09
Continent of America: United States	803, 200 Included	477, 738 with the Uni	940, 410 ted States.	979, 290 26, 730	837, 86 47, 14
West Indies	924	184	77	1, 944	2, 22
Total from America	304, 124	477, 922	940, 487	1, 007, 964	887, 22
Continent of Asia: Aden	697, 896 2, 072, 304	818, 824 2, 023, 704	683, 316 1, <b>926</b> , 504	917, 568 8, 300, 912	869, 45 3, 404, 91
CeylonChina	4, 386, 686 5, 732, 968	4, 371, 570 5, 853, 870	4, 522, 230	4, 597, 074 262, 244	4, 544, 10 751, 16
Hong-Kong	l ' '	9, 409, 757 252	14, 369, 532 54, 918	12, 784, 428 26, 244	9, 604, <b>6</b> 2 9, 23
Java Maldive Islands	409 246, 402	418 198, 288	15 143, 856	7, 776 12 <b>6,</b> 360	4, 04 106, 67
Mekran and Sonmeanee Persia (Gulf)	4, 252, 986	138, 996 4, 120, 308	151, 632 4, 471, 006	231, 336 1, 686, 420	275, 07 1, 947, 40
Siam Straits Settlements	73, 872 <b>3,</b> 725, 676	106, 434 4, 861, 458	103, 518 <b>5, 215, 206</b>	104, 976 5, 207, 490	104, 49 5, 077, 24
Sumatra	121, 500 1, 701	107, 406 13, 122	16, 038 1, 623	92, 134 1, 454, 598	117, 12 1, 251, 45
All other		4, 218	6, 206	82	93, 21
Total from Asia	27, 260, 306	<b>32, 028, 6</b> 25	31, 665, 690	30, 799, 642	28, 160, 20
Australasia	2, 214, 416 †8, 171, 286	1, 679, 130 †6, 423, 239	1, 135, 296 13, 655, 572	1, <b>0</b> 71, 374 1, 151, 898	1, 500, 78 258, 21
TOTAL IMPORTS	177, 055, 680	192, 515, 929	215, 604, 710	214, 774, 092	237, 541, 00
Imported via the Suez Canal	}	Not stated.	 	142, 671, 603 63, 457, 035	170, <b>804, 7</b> 0 56, <b>6</b> 58, 33
Government stores (included in fore- going).		10, 650, 204	7, <b>66</b> 3, 248	8, 645, 454	10, 077, 90

<sup>\*</sup>Included with Zanziber.

BRITISH INDIA.

treasure, from the several countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 229, 382, 766 583, 200 583	Dollars. 161, 065, 886 580, 920	Dollars. 188, 819, 872 758, 160 88	Dollars. 232, 982, 082 2, 070, 360	Dollars. 220, 862, 192 1, 739, 880	Dollars. 234, 286, 992 2, 988, 900 381, 240	Dollars. 253, 755, 006 3, 149, 280	Dollare. 256, 940, 910 8, 837, 456
2, 779, <b>92</b> 0 123, 930 7, 290	1, 298 2, 201, 580 250, 776 108, 878	2, 857, 690 323, 218 76, 788	4, 617 3, 888, 000 832, 910 92, 840	11, 178 3, 688, 740 380, 052 7, 290	2, 604, 960	856, 832 4, 174, 740 592, 920 22, 812	1, 201, 392 8, 344, 632 451, 008 5, 832
2, 113, 128 20, 412 60, 264	1, 900, 980- 26, 730 66, 582	8, 816, 558 40, 836 61, 236	7, 658, 874 23, 814 50, 490	4, 455, 162 22, 356 41, 810	9, 847, 818 57, 848 41, 310	3, 801, 888 95, 742 51, 030	2, 621, 250 54, 432 46, 656
9, 958	6, 561	15, 333	234, 788	215, 179	83, 490	16, 407	85, 575
235, 081, 451	166, 200, 686	194, 767, 721	247, 838, 225	231, 423, 339	250, 826, 172	<b>268, 606, 187</b>	268, 539, 163
96, 714 (*) 1, 248, 584	19, 440 879, 062 835, 360	17, 982 407, 218 1, 360, 900	38, 824 427, 194 1, 073, 820	23, 814 468, 990 1, 297, 620	23, 328 406, 290 1, 889, 960	17, 010 465, 588 1, 262, 628	11, 664 844, 088 1, 445, 850
1, 658, 718 3, 132, 278 62, 208	1, 100, 784 6, 430, 984 2, 950	1, 431, 270 4, 411, 422 203, 634	1, 631, 988 6, 871, 460 8, 475	1, 661, 148 4, 694, 274 4, 282	1, 419, 120 4, 304, 016 2, 260	1, 917, 756 3, 786, 368 12, 150	1, 988, 866 8, 181, 324 45, 684
39, 910	83, 412	89, 988	25, 544	64, 239	138, 695	56, 274	40, 965
6, 238, 863	8, 801, 942	7, 872, 864	9, 571, 805	8, 214, 367	7, 683, 675	7, 467, 774	12, 052, 941
1, <b>359, 842</b> 8, 052	1, 695, 698 806	2, 557, 818 8, 878	2, <b>8</b> 85, 288 21, 884	2, 240, 946 156, 978	4, 540, 698 17, 496	2, 571, 426 6, 804	5, 870, <b>894</b> 7, 290
888	. 24	2, 430	2, 600	15	2, 605	3, 766	2, 861
1, 362, 782	1, 696, 028	<b>2, 563, 626</b>	2, 409, 272	2, 897, 939	4, 560, 790	2, 581, 996	5, 880, 045
1, 082, 322 3, 362, 148	647, 352 8, 229, 966	622, 566 8, 500, 172	863, 136 4, 750, 503	991, 926 4, 036, 716	698, 882 3, 556, 548	963, 136 2, 888, 776	1, 281, 096 8, 164, 846
3, 588, 080 4, 583, 224	4, 172, 796 4, 778, 525	5, 092, 199 5, 180, 171	8, 601, 746 4, 991, 774	3, 323, 046 3, 178, 388	4, 264, 164 2, 943, 945	8, 300, 426 4, 204, 386	2, 658, 420 5, 425, 704
14, 933, 628 52, 002	14, 815, 987 197, 802	21, 972, 091 1, 113, 426	12, 985, 366 124, 942	18, 283, 806 24, 800	18, 982, 674 93, 312	15, 522, 840 83, 106	13, 616, 262 1, 029, 834
87, 966 100, 116	2, 571 142, 898	865 87, 966	96, 714 118, 098	68 110, 822	753 64, 152	7, 776 15 <b>9,</b> 854	85, 050 117, 126
<b>825, 620 2, 517, 966</b>	817, 844 <b>2, 996</b> , 190	526, 824 2, 880, 522	309, 582 2, 558, 156	880, 966 <b>2,</b> 805, 562	800, 848 8, 724, 218	279, 936 8, 758, 288	8, 946, 806
<b>66</b> , 582 7, 145, 172	<b>82, 62</b> 0 <b>6, 407, 910</b>	88, 894 6, 911, 406	68, 666 7, 500, 262	82, 184 7, 915, 482	138, 996 8, 131, 752	147, 744 8, 810, 114	81, <b>648</b> 8, <b>63</b> 8, 164
276, 534 2, 896, 074	183, 222 <b>2, 309, 9</b> 58	119, 55 <b>6</b> 2, 018, 844	61, 750 1, 861, 503	86, 508 <b>2, 268, 64</b> 8	184, <b>62</b> 2 8, 087, 072	294, 516 2, 384, 802	818, 830 <b>2, 497, 068</b>
1, 841	27, 010	9, 720	2, 508	8, 927	1, 792	83, 422	******
40, 968, 770	40, 312, 141	50, 074, 722	89, 889, 705	43, 501, 799	46, 122, 730	42, 239, 072	42, 859, 854
1, 866, 911 845, 466	747, 429 249, 411	1, 222, 585 207, 033	1, 977, 826 1, 076, 616	7, 577, 712 619, 120	9, 245, 178 126, 554	12, 038, 220 191, 205	8, 4R1, 585 399, 982
285, 863, 742	218, 006, 687	256, 708, 004	802, 267, 447	293, 719, 276	818, 567, 158	831, 124, 454	338, 218, 572
205, 210, 098 79, 261, 992	186, 519, 844 75, 488, 159	172, 564, 992 77, 228, 844	221, 855, 990 67, 264, 768	209, 769, 750 73, 640, 494	229, 228, 850 79, 168, 772	246, 129, 868 72, 504, 749	
10, 391, 652	5, 999, 184	6, 919, 668	13, 646, 894	10, 809, 082	10, 170, 036	12, 399, 837	••••••

#### BRITISH INDIA-Continued.

## Total value of exports, including foreign mer

Countries.	1873.	1874.	1875.	1876.	1877.
Continent of Europe: United Kingdom Austria	5, 345, 514	Dollars. 139, 440, 690 4, 563, 540	Dollars. 135, 118, 346 6, 420; 060	Dollars. 137, 873, 340 6, 852, 600	Dollars. 142, 417, 440 6, 916, 089
Relgium France	92, 826 12, 990, 780	15, 231, 240	21, <b>602</b> , 140	665, 820 <b>22, 340, 5</b> 80	1, 778, 760 26, 423, 820
Germany Holland Italy Malta	689, 634	291, 600 1, 156, 680 6, 415, 200 77, 760		680, 400 870, 528 <b>5, 930, 640</b> 199, 200	-967, 140 874, 800 6, 852, 600 719, 280
Russia Spain Gibraltar Ali other	48,600	447, 120 145, 000 155, 034 187, 343	196, 844	105, 462	393, 660 97, 200 93, 740 259, 180
Total to Europe	163, 219, 698	168, 061, 207	171, 599, 938	174, 301, 217	187, 796, 000
Continent of Africa: Cape of Good Hope Mozambique Zanzibar	1, 329, 210	1, 219, 860	1, 539, 162	th Zanzibar.   1, 805, 882	232, 308
Egypt	1	271, 188 4, 610, 682	4, 043 5, 020, 866	994, 842 5, 878, 656	2, 451, 884 6, 225, 174
Natal Réunion All other	8,748	243, 486 5, 696	33, 048 362, 556 8, 962	50, 058 317, 844 13, 523	66,096
Total to Africa	6, 510, 690	6, 562, 808	7, 098, 885	8, 739, 167	11, 198, 325
Continent of America: United States South America West Indies	9, 943, 856 Included 968, 196	with the Unit		8, 648, 024 903, 960 402, 186	846, 612
Total to America	10, 911, 552	10, 328, 772	10, 582, 650	9, 949, 170	10, 445, 506
Continent of Asia: Aden Arabia (Red Sea ports) Ceylon China	1, 690, 308 1, 282, 554 11, 296, 584 82, 201, 874	1, 853, 604 1, 298, 386 13, 700, 000 1, 825, 902	2, 045, 648 1, 744, 254 12, 133, 962 (*)	2, 011, 348 3, 951, 180 13, 068, 940 6, 632, 442	1, 580, 473 2, 917, 458 16, 483, 662 8, 844, 714
Hong-Kong. Japan Java Maldive Islands	27, 877, 347 2, 881 427, 400 153, 576	54, 096, 174 1, 230 273, 172 133, 650	57, 108, 886 3, 455 75, 816 144, 828	49, 356, 702 29, 767 185, 652 169, 128	
Mekran and Sonmeanee.  Persia (Gulf ports)  Siam and Philippines.  Straits Settlements	6, 555, 168	187, 588 6, 039, 841 216, 756 9, 728, 982	117, 126 6, 050, 214 196, 344 10, 772, 676	172, 044 3, 008, 340 126, 360 12, 844, 008	173, 502 8, 617, 298 219, 672 12, 018, 434
Turkey in Asia	249, 818 43, 740	216, 270 58, 709	184, 680 <b>6</b> 3, 977	2, 009, 610 252, 283	1, 813, 752 91, 416
Total to Asia	91, 443, 276	89, 580, 214	90,641,868	93, 817, 804	104, 566, 350
Australasia	. 518, 562	1, 047, 830	658, 580	1, 572, 696	1, 427, 312
Total exports to all countries	1274, 827, 372	†276, 241, 160	1281, 418, 110	292, 380, 054	815, 509, 742
Exports via Suez Canal Exports via other routes	} N	ot designated			117, 077, 400 198, 432, 842

<sup>&</sup>quot;Entered with Hong-Kong.
†The transit trade, for the years 1873, 1874, and 1875, through the Suez Canal, included in totals
but not included in details, was as follows, respectively: \$2,214,594, \$660,829, and \$836,139. During
the subsequent years this trade is included with the exports to Egypt.

BRITISH INDIA-Continued.

chandise, and treasure, to the several countries.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
Dollars. 149, 702, 580 7, 124, 760 1, 064, 840 29, 286, 860	Dollars. 187, 965, 680 6, 779, 700 5, 929 19, 182, 420	Dollars. 134, 962, 200 9, 639, 600 578, 840 23, 630, 446	Dollars. 151, 474, 809 10, 836, 360 1, 648, 100 31, 670, 140	Dollars. 169, 722, 732 11, 848, 820 9, 579, 060 88, 886, 678	Dollars. 178, 118, 200 12, 650, 580 10, 458, 720 85, 098, 920	Dollars. 179, 742, 240 10, 893, 204 16, 570, 088 40, 694, 197	Dollars. 168, 995, 85 11, 425, 87 15, 172, 92 39, 858, 31
1, 608, 669 1, 229, 589 9, 093, 060 298, 980	986, 580 1, 292, 760 8, 130, 780 170, 100	1, 326, 780 1, 035, 180 10, 764, 900 714, 420	1, 667, 820 2, 072, 920 13, 566, 320 2, 430, 420	3, 683, 880 2, 848, 100 15, 104, 880 8, 431, 160	2, 511, 191 2, 201, 580 16, 486, 240 8, 669, 300	2, 995, 704 1, 654, 844 17, 141, 602 5, 022, 810	2, 767, 28 2, 288, 71 17, 017, 29 2, 149, 09
281, 880 1, 050, 838 9, 720 83, 932	656, 100 208, 960 719 . 60, 020	88, 880 554, 040 87, 908 54; 767	888, 520 1, 918, 980 21, 384 43, 509	247, 860 748, 440 265, 842 298, 690	602, 640 1, 477, 440 1, 217, 916 390, 720	727, 056 1, 102, 784 299, 376 259, 141	563, 68 848, 55 253, 69 91, 36
200, 744, 690	175, 439, 768	182, 787, 461	218, 234, 282	256, 651, 187	250, 858, 447	277, 102, 446	256, 446, 64
407, 268 1, 443, 906 2, 808, 108	499, 122 397, 062 1, 228, 608 1, 988, 712	881, 024 581, 256 1, 587, 704 5, 046, 624	573, 892 1, 084, 752 2, 110, 698 7, 008, 606	370, 832 640, 548 1, 682, 582 8, 838, 302	847, 490 826, 200 2, 310, 444 10, 271, 610	649, 782 806, 274 2, 546, 154 17, 510, 094	240, 084 641, 520 1, 940, 115 13, 648, 824
6, 692, 496 100, 602 485, 514 13, 666	6, 794, 280 413, 586 929, 718 22, 095	5, 615, 730 102, 752 739, 606 56, 504	3, 853, 008 242, 514 1, 203, 336 13, 851	4, 962, 326 855, 752 873, 342 77, 206	2, 880, 522 316, 872 1, 038, 096 235, 691	4, 889, 646 432, 540 973, 458 221, 615	5, 169, 585 459, 270 961, 306
11, 351, 560	12, 273, 183	14, 661, 200	16, 090, 657	17, 800, 840	18, 226, 928	28, 029, 568	<b>28, 000,</b> 700
9, 442, 922 937, 494 711, 018	9, 908, 082 1, 345, 248 785, 818	15, 973, 362 1, 289, 844 624, 996	12, 723, 480 1, 158, 624 408, 866	13, 099, 644 1, 017, 694 687, 204	16, 246, 980 1, 848, 790 691, 578	15, 079, 608 2, 127, 708 583, 200	16, 858, 854 1, 481, 814 662, 418
11, 091, 434	11, 988, 648	17, 888, 202	14, 285, 970	14, 804, 532	18, 282, 848	17, 790, 516	19, 003, 080
1, 620, 324 3, 888, 486 18, 798, 926 11, 969, 134	1, 921, 644 4, 072, 680 18, 394, 614 16, 594, 470	2, 391, 120 4, 488, 152 12, 963, 078 25, 659, 342	8, 639, 654 5, 217, 696 11, 481, 750 20, 106, 306	2, 498, 526 4, 829, 882 10, 010, 142 20, 269, 116	2, 807, 136 4, 017, 276 9, 047, 862 15, 709, 464	2, 989, 872 8, 810, 454 9, 520, 202 16, 672, 230	4, <b>23</b> 7, 926 <b>8</b> , 759, 216 <b>13</b> , <b>436</b> , 926 <b>15</b> , 345, 456
50, 176, 684 25, 077 150, 660 165, 240	40, 874, 778 244, 944 13, 122 204, 608	50, <b>796, 72</b> 0 <b>40</b> 6, 945 81, 104 133, 650	52, 704, 270 521, 643 102, 546 189, 540	45, 985, 320 662, 418 160, 866 149, 688	48, 341, 448 1, 127, 520 285, 282 132, 678	47, 489, 004 1, 398, 708 283, 766 205, 578	46, 280, 823 1, 861, 773 283, 183 150, 176
204, 120 4, 766, 688 147, 258 12, 705, 012	273, 132 5, 480, 136 103, 518 13, 444 764	817, 988 6, 0 <b>92</b> , 982 143, 856 13, 359, 168	285, 282 5, 978, 772 107, 184 15, 470, 838	290, 142 6, 209, 186 171, 558 17, 208, 774	292, 572 6, 308, 280 136, 566 17, 802, 478	210, 488 7, 201, 762 98, 172 15, 059, 138	6, 682, 92 98, 31 16, 683, 89
2, 198, 178 40, 250	1, 886, 166 154, 290	1, 949, 846 208, 742	1, 924, 074 76, 982	1, 745, 712 523, 908	2, 058, 696 368, 281	1, 972, 402 253, 520	2, 182, 840 114, 210
101, 875, 037	112, 662, 804	118, 951, 293	117, 866, 537	110, 714, 688	108, 435, 589	107, 115, 246	110, 562, 092
2, 213, 730	2, 510, 678	2, 235, 114	2, 594, 268	8, 906, 468	5, 292, 054	2, 900, 934	8, 812, 67
327, 276, 451	314, 875, 079	335, 873, 270	869, 071, 714	408, 877, 165	410, 095, 818	488, 018, 369	‡ <b>414, 197, 98</b>
119, 695, 482 207, 580, 969	118, 816, 794 196, 038, 285	128, 010, 456 207, 862, 814	162, 804, 560 206, 767, 154	209, 570, 004 193, 807, 161	215, 970, 138 194, 125, 175	244, 417, 662 188, 600, 707	

<sup>!</sup>The statistics showing the distribution of exports among the several countries for the year 1885 fall short of the total to the amount of \$1,312,785.

#### BRITISH INDIA-Continued.

Quality and value of

Articles.	1972.	1874.	1878.	1870.	1877,
Appareldollara	2, 920, 860	2, 779, 080	8, 018, 200	100	2, 551, 50
arms, ammunition, &cdollars Books, paper, and stationerydollars	2, 000, 000	809, 360	498, 240	168	815, 900
tons	357, 091	2, 808, 500 895, 898	2, 298, 780 893, 696	140	2, 250, 186 571, 72
Coal, coke, &c tone dollare	2, 419, 794	8, 596, 400	5, 304, 900	180	4, 529, 520
Cotton, twist and yars { pounds dollars		30, 578, 815	87, 097, 260	140	83, 270, 20
ction manufacturesdollars.	12,778,588 70,984,917	12,776,940 78,658,160	15, 847, 880 79, 048, 040	100	18, 187, 240 77, 721, 120
Oruga and medicinesdollara	1, 582, 858	1, 302, 480	1, 419, 120	180	1, 988, 640
Ovendollarudollaru		680, 400	767, 880	190	529, 74
ruits and vegetablesdollars.	1, 282, 664	1, 366, 800 2, 217, 768	1, 142, 100 8, 812, 170	160	456, 840 3, 886, 460
class and manufactures { enp. ft. dollars	1, 444, 892	1, 619, 880	1, 550, 840	100	1, 360, 80
time and rosins dollars		665, 260	641, 520	100	408, 24
fardware, cutlery, and platedware.do forses	. Incl	nded with m		500	1, 992, 60
vory dollara		845, 000 903, 950	825, 620 597, 780	340 360	412, 10 1, 195, 50
ewelry and precious stones . dollars	1, 075, 518	831, 060		120	962, 28
iquors: Malt (gallons	1, 585, 095	1, 435, 846	1, 481, 698		1, 176, 92
- Junium.	1,765,610	1, 642, 680 606, 824	1, 701, 000 674, 987		1, 317, 00 654, 52
pirite	2, 491, 954	9 974 E4A	2, 692, 440		3, 022, 92
Vince and liquore		646, 043	564, 921	196	364, 24
Inchinery and mill work dollars	. 2, 487, 640	2, 813, 860	2, 318, 320	100	1, 897, 40
fetale:		4, 869, 720	6, 763, 980		4, 266, 52
Iron	8, 657, 694	3, 868, 560	84, 565 6, 060, 420	111, 811 6, 925, 500	128, 26 7, 426, 08
ctons		545	1,715	4, 519	5,97
/ COLLETS	. 881, 996	277, 020	466, 560	481, 540	544, 82
Brass tons dollars	Inola	ded with co	ррет.	288, 140	216, 70
Copper	.	6, 797	11,765	19, 680	14, 96
dollars	1.812.968	2, 493, 160	4, 199, 040	5, 870, 098	6, 794, 28
Speiter tons dollars	500 494	2,278	2, 167	3, 252 403, 280	5, 81 600, 84
tona	.	243,000 2,086	228, 420 1, 858	2, 674	2,05
Tin } tons } dollars	888, 800	719, 280	680, 400	721, 840	879, 66
1,460		, -,	1,619	1,618	2,02
dollars	810, 068	184, 690 143, 067	247, 860 160, 714	806, 180 524, 298	354, 78 217, 18
Quickeliver dollars			77, 760	524, 680	179, 82
Unenumerateddollars	•]•••••	597, 780	704, 700	204, 120	206, 98
Total metale dollars	8, 143, 902	8, 451, 540	12, 665, 100	15, 636, 178	17, 806, 46
iledollary		8, 451, 540	584, 600	840, 200	279, 08
aints and colorsdellars		] 90	065, 829	986, 580	782, 45
erfumerydollaredollaredollare	• • • • • • • • • • • • • • • • • • • •		179, 820	208, 980	204, 12 597, 78
rovisions	1, 708, 206	1 10	537, 030 1, 769, 040	481, 140 8, 470, 040	3, 212, 46
all mass whose and sail man at a should	1 204 446	0 10	2, 619, 540	2, 916, 000	8, 368, 12
alt		71	804, 794	401,777	228,65
Connels	9, 021, 463	4, 30 2, 38	3, 674, 160	2, 920, 880 2, 457, 244	2, 094, 66 1, 461, 06
3 IMILIAN -					-1 4011 00
dollare	8, 107, 970	8 20	2, 469, 253 4, 242, 780	8, 877, 700	2, 196, 73
lik manningtores dollars	1 9 724 516		4, 242, 780 8, 450, 600	8, 877, 700 8, 445, 740	2, 838, 24
lik manningtores dollars	1 9 724 516	8 20 2 88 26 89	4, 242, 780 8, 450, 600 25, 659, 048	8, 445, 740 28, 534, 058	2, 838, 24 29, 368, 45
pices dollars	1,051,704	26, 88 10	4, 242, 780 8, 450, 600 25, 650, 048 869, 940	8, 445, 740 28, 534, 058 1, 924, 560	2, 838, 24 29, 368, 45 2, 104, 88
pices dollars	1,051,704	26, 88 50 56	4, 242, 780 8, 450, 600 25, 659, 648 869, 940 21, 764 2, 507, 760	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 854, 560	2, 638, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44
pices dollars	1,051,704	26, 88 50 56	4, 242, 780 8, 450, 600 23, 659, 648 869, 940 21, 764 1, 701, 473	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 854, 560 2, 771, 204	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30
pices dollars dollars dollars pounds dollars d	2, 724, 616 1, 051, 704 2, 136, 186 1, 196, 476	24, 88 56 2, 10 1, 71 80	4, 242, 780 8, 450, 600 23, 659, 048 869, 940 21, 764 1, 701, 473 826, 200	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 854, 560 2, 771, 204 1, 205, 280	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40
pices   dollars   pounds   dollars   tons   dollars   do	2, 724, 616 1, 051, 704 2, 138, 186 1, 196, 476	24, 89 56 2, 10 1, 71 80 80	4, 242, 780 8, 450, 600 25, 659, 048 869, 940 21, 764 2, 507, 760 1, 701, 473 826, 200 840, 200	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 854, 560 2, 771, 204 1, 205, 280 869, 860	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 466, 56 665, 82
pices pounds pounds dollars tons dollars dolla	2, 724, 616 1, 051, 704 2, 138, 186 1, 196, 476	26, 89 50 56 2, 10 1, 71 80 80	4, 242, 780 8, 450, 600 25, 650, 048 869, 940 21, 764 2, 507, 760 1, 701, 472 826, 200 840, 200 578, 840 849, 920	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 354, 560 2, 771, 204 1, 205, 260 952, 560 952, 560	2, 838, 24 29, 868, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 465, 56 665, 82 369, 38
pices pounds pounds dollars tons dollars dolla	2, 724, 616 1, 051, 704 2, 138, 186 1, 196, 476	26, 89 50 56 2, 10 1, 71 80 80	4, 242, 780 8, 450, 600 25, 650, 048 869, 940 21, 764 2, 507, 760 1, 701, 472 826, 200 840, 200 578, 840 349, 920 1, 542, 787	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 354, 560 2, 771, 204 1, 205, 280 952, 560 952, 560 393, 660 1, 749, 188	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 465, 56 663, 82 369, 36 2, 145, 58
pices dollars pounds dollars d	2, 724, 616 1, 051, 704 2, 138, 186 1, 198, 476	26, 89 56 2, 10 1, 71 80 80 90 90 1, 90	4, 242, 780 8, 450, 000 25, 659, 048 869, 940 21, 764 2, 507, 760 1, 701, 473 826, 200 840, 200 578, 840 349, 920 1, 542, 787 208, 980	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 354, 560 2, 771, 204 1, 205, 280 952, 560 952, 560 1, 749, 188 222, 560	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 465, 56 665, 82 369, 36 2, 145, 58
pices pounds pounds dollars tons dollars dolla	2, 724, 616 1, 051, 704 2, 138, 186 1, 198, 476	26, 89 56 2, 10 1, 71 80 80 90 90 1, 90	4, 242, 780 8, 450, 600 25, 650, 048 869, 940 21, 764 2, 507, 760 1, 701, 472 826, 200 840, 200 578, 840 349, 920 1, 542, 787	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 354, 560 2, 771, 204 1, 205, 280 952, 560 952, 560 393, 660 1, 749, 188	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 466, 58 665, 82 565, 82 2, 145, 58 257, 58
Hik manufactures dollars dollars dollars dollars dollars forces dollars	2, 724, 616  1, 051, 704  2, 138, 186  1, 196, 476  3, 496, 770 19, 747, 488  154, 910, 677	24, 88 50 56 2, 10 11, 71, 80 80 10 80 10 8 10 8 10 8 10 8 10 8	4, 242, 780 8, 450, 000 25, 659, 048 809, 940 21, 764 2, 507, 760 1, 701, 473 826, 200 840, 200 578, 840 349, 920 1, 542, 787 208, 986 2, 711, 880 4, 879, 623	8, 445, 740 28, 534, 058 1, 924, 560 88, 724 4, 354, 560 2, 771, 204 1, 205, 280 969, 860 952, 860 952, 860 1, 749, 188 222, 500 4, 226, 200 8, 215, 158	2, 196, 72 2, 838, 24 29, 868, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 466, 56 665, 82 369, 38 2, 145, 58 2, 145, 58 8, 769, 42
pices pounds dollars	2, 724, 616  1, 051, 704  2, 138, 186  1, 196, 476  3, 496, 770 19, 747, 488  154, 910, 677	24, 88 50 56 2, 10 11, 71, 80 80 10 80 10 8 10 8 10 8 10 8 10 8	4, 242, 780 8, 450, 000 25, 659, 048 809, 940 21, 764 2, 507, 760 1, 701, 473 826, 200 840, 200 578, 840 349, 920 1, 542, 787 208, 980 2, 711, 880 4, 879, 623	8, 445, 740 28, 534, 058 1, 924, 560 83, 724 4, 354, 560 2, 771, 204 1, 205, 280 962, 260 952, 260 1, 749, 188 222, 560 4, 226, 200 8, 215, 158 180, 367, 236 25, 761, 402	2, 838, 24 29, 368, 45 2, 104, 38 14, 19 1, 963, 44 1, 755, 30 680, 40 466, 56 665, 82 369, 38 2, 145, 58 2, 145, 58 8, 769, 42 171, 884, 59 55, 579, 44
pices pounds dollars	2, 724, 616  1, 051, 704  2, 138, 186  1, 196, 476  3, 496, 770 19, 747, 488  154, 910, 677	24, 88 50 56 2, 10 11, 71, 80 80 10 80 10 8 10 8 10 8 10 8 10 8	4, 242, 780 8, 450, 000 25, 659, 048 869, 940 21, 764 2, 507, 760 1, 701, 473 826, 200 840, 200 578, 840 349, 920 1, 542, 787 208, 986 2, 711, 880 4, 879, 623	8, 445, 740 28, 534, 058 1, 924, 560 83, 724 4, 354, 560 2, 771, 204 1, 205, 280 952, 860 952, 860 952, 600 1, 749, 188 222, 500 4, 228, 200 8, 215, 158	2, 838, 24 29, 368, 45 2, 104, 88 14, 19 1, 963, 44 1, 755, 30 680, 40 485, 56 665, 56 565, 36 2, 145, 58 2, 257, 58 8, 944, 32 8, 769, 42

<sup>\*</sup>Shoot and plate only.

#### PRITING INDIA-Continue.

grindgal articles imported.

2, 711, 200	004, 134 214, 404 985, 846 158, 192 281, 844 018, 836 643, 489 436, 848 206, 488 214, 514 984, 984 984, 984 984, 984 113, 736 182, 416 18, 281 802, 416 18, 281 802, 611 84red 60pper.
\$ 2, 708, 480	214, 404 885, 846 158, 192 881, 544 018, 364 741, 836 643, 489 436, 543 208, 408 214, 514 984, 364 056, 656 644, 694 213, 726 361, 728 361, 728 361, 728
2, 788, 480	881, 846 158, 192 881, 544 918, 364 741, 898 643, 489 436, 543 615, 848 208, 408 214, 514 984, 984 956, 656 644, 694 213, 726 281, 728
8. 194, 125	351, 544 018, 364 741, 336 615, 348 200, 408 214, 514 984, 364 050, 656 644, 634 213, 736 361, 726 361, 726 361, 726
18, 851, 800 18, 514, 805 1 1 60, 700 12, 800 25, 855, 850 16, 41 10, 10 105, 16, 10 105, 16, 10 105, 16,	018, 364 741, 336 643, 489 438, 343 200, 408 214, 514 984, 984 050, 656 644, 634 213, 736 361, 726 361, 726 361, 726
84, 154, 829	018, 364 741, 336 643, 489 438, 343 200, 408 214, 514 984, 984 050, 656 644, 634 213, 736 361, 726 361, 726 361, 726
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\$\frac{8}{876}\$ \$\frac{876}{876}\$ \$\frac{1}{1}\$ \$\frac{1}{	615, 848 200, 406 214, 514 984, 984 050, 656 644, 694 213, 796 782, 414 16, 283 901, 911 bared
## 18   100   \$771, 000   \$772, 000   \$2, 000, 360   \$2, 000   \$3,	615, 846 200, 406 214, 514 984, 984 050, 656 644, 634 213, 736 361, 726 782, 416 16, 223 902, 611 tered
2, 177, 280 466, 380 613, 280 613, 280 81, 520 81, 180 82, 280 82, 280 82, 280 80, 170 1, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 11, 081, 780 12, 180 13, 180 14, 180 14, 180 15, 180 11, 18	200, 408 214, 514 194, 984 050, 656 644, 694 213, 736 361, 728 782, 414 16, 203 802, 911 tered
Next   198   200   201	200, 408 214, 514 194, 984 050, 656 644, 694 213, 736 361, 728 782, 414 16, 203 802, 911 tered
1, 088, 789	200, 408 214, 514 194, 984 050, 656 644, 694 213, 736 361, 728 782, 414 16, 203 802, 911 tered
1, 821, 189	214, 514 984, 984 959, 656 944, 654 213, 736 281, 726 182, 414 18, 223 902, 911 stered
8, 146, 289	050, 856 644, 604 213, 796 381, 796 182, 414 18, 223 802, 611 stered
498, 768	844, 694 213, 736 391, 736 782, 414 16, 223 802, 611 sternd
4, 194, 180 4, 194, 180 18, 680 12, 290 6, 684, 680 6, 622, 120 8, 694, 540 7, 184, 842 128, 891 118, 114 144, 608 134, 860 151, 356 18, 460, 460 4, 607 8, 614 11, 710 12, 988 808, 600 236, 780 408, 340 286, 480 282, 440 118, 940 18, 940 282, 440 17, 606 18, 940 7, 878, 290 7, 878, 290 282, 440 18, 940 282, 440 17, 606 18, 940 7, 878, 290 7, 878, 290 7, 878, 290 7, 878, 290 8, 418, 600 10, 780, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 820, 820 10, 8	212, 736 201, 736 702, 414 14, 222 802, 011 tered
6, 978, 960 7, 027, 860 8, 839, 300 7, 883, 320 6, 872, 840 8, 088, 290 16, 440, 400 8, 688, 860 230, 780 640, 540 250, 648 641, 530 782, 180 879, 860 825 283, 440 180, 540 302, 440 30, 862 118, 506 344, 751 30, 162 7, 288, 280 6, 240, 340 7, 878, 290 7, 873, 200 7, 873, 200 7, 472 7, 006 72, 280 820 823, 640 811, 620 823, 64	18, 213 18, 213 902, 911 tered
\$36, 666 \$25, 780 \$65, 565 \$36 \$36, 648 \$41, 520 \$782, 180 \$25 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$15, 640 \$25, 440 \$25	902, GLL
262, 440	tered copper
7, 286, 280 6, 340, 340 7, 878, 280 7, 878, 280 7, 128 8, 280 8, 416, 480 10, 786, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 780, 880 10, 880, 880, 880, 880, 880, 880	
7, 185 7, 128 8, 988 8, 190 7, 478 7, 606 7, 285 8, 660, 946 763, 620 608, 840 811, 620 664, 100 612, 260 2, 144 1, 673, 620 736, 720 481, 140 860, 220 821, 840 1, 344, 220 1, 143, 100 1, 628 679 679 679 679 679 679 679 679 679 679	31,796 301,105
1, 678, 920 796, 720 481, 140 360, 220 821, 840 1, 846, 220 1, 142, 100 1, 848 471, 420 344, 830 516, 180 461, 660 466, 660 460, 860 515, 100 140, 960 126, 864 281, 840 87, 480 126, 860 162, 814 141, 796 854, 660 466, 660 460, 860 416, 6	6, 842
2, 588 8, 828 8, 674 2, 680 3, 860 8, 679 4, 434 471, 420 544, 830 815, 180 461, 660 466, 660 480, 880 515, 169 207, 961 256, 884 581, 368 162, 814 141, 796 354, 680 418, 690 144, 940 128, 860 82, 620 106, 930 155, 820 184, 680 348, 600 17, 630, 800 18, 140, 960 16, 638, 580 12, 620 17, 683, 800 22, 425, 800 25, 156, 500  1, 436, 560 1, 786, 220 2, 658, 560 2, 570, 940 60 5, 107, 660 8, 178, 440	2, 304
471, 426 544, 830 \$15, 180 461, 666 466, 560 480, 880 515, 169 207, 961 256, 884 581, 368 162, 814 141, 786 354, 686 418, 686 148, 640 128, 860 32, 630 106, 980 155, 530 184, 680 348, 600 177, 630, 800 18, 140, 980 16, 538, 580 18, 580 17, 683, 600 22, 425, 800 25, 156, 500  1, 436, 560 1, 786, 230 2, 658, 560 2, 570, 940 60 5, 107, 660 2, 178, 440	600, 878 & 843
146, 948 126, 860 285, 740 87, 480 77, 788 178, F26 194, 440 17, 630, 800 15, 140, 980 16, 638, 580 18, 376, 860 17, 983, 800 22, 425, 800 25, 156, 500 1, 436, 560 1, 786, 230 2, 658, 560 2, 570, 940 60 5, 107, 860 2, 178, 440	340, 503
17, 630, 800 15, 140, 960 16, 52K, 580 12, 376, 860 17, 963, 800 23, 425, 800 25, 156, 500  1, 436, 560 1, 786, 230 2, 658, 560 2, 570, 940 60 5, 107, 860 2, 178, 440	******
1, 436, 560 1, 786, 230 2, 658, 560 2, 570, 940 60 5, 107, 860 2, 178, 440	
1,500,000   1,100,200   3,000,000   3,010,100   00   0,101,000   0,110,440	
885, 680   90F, 820   901, 720   906, 883   90   1, 137, 540   1, 101, 540	
228, 560 228, 560 238, 280 238, 140 40 806, 180 298, 460 564, 620 667, 500 562, 926 656, 100 80 826, 200 1, 137, 240	
4, 174, 740   4, 783, 640   6, 090, 140   4, 471, 200   80   6, 182, 820   8, 935, 240   6,	363, 630
279, 063 201, 506 857, 484 410, 714 60 272, 861 491, 478	740, 006 482, 300
	186, 119 783, 650
8, 295, 860   2, 755, 620   8, 818, 850   6, 185, 620   60   5, 219, 646   6, 714, 260   3,	633, 336
38, 123, 137   36, 815, 080   B3, 444, 206   37, 906, 763   34   32, 463, 360   37, 405, 271   36,	1 <b>88, 794</b> 748, 718
2 876 540 2 473 740 2 556 900 2 636 860 80 2 488 440 2 707, 820 2 2 2 181 50, 803 85, 808 54, 348 79 36, 986 40, 538	90, 219
2, 874, 289 7, 197, 880 8, 292, 248 7, 829, 460 40 5, 282, 820 8, 879, 280 10,	474, 286 874, 482
828, 400   496, 600   1, 930, 820   1, 817, 800	681, 980
306, 530 383, 940 825, 620 854, 780 854, 780 408, 340 360, 360 360 360 360 360 360 360 360 360 360	******
315, 900 845, 000 947, 800 286, 460 315, 800 481, 140 613, 840 2, 840, 145 2, 723, 041 8, 864, 930 2, 775, 884 3, 990, 077 2, 781, 257 2, 826, 842	••••••
288, 740   308, 180   422, 820   349, 920   354, 704   235, 340   316, 800	
TS 110 000   TY 010 000   10 100 000   11 404 001   14 000 100   74 100 000   74 000 000	, 900, 600
70, 201, 652 5, 980, 184 N. WID, 188 13, 646, 304 10, 300, 523 10, 170, 686 12, 800, 827	498 449
200, 800, 742 218, 606, 607 254, 700, 604 803, 267, 447 339, 118, 270 218, 567, 188 831, 134, 454 836,	494, 642

#### BRITISH INDIA-Continued.

Quantities and value of principal articles

Articles.	1873.	1			1877.
Coffee { pounds } dollars } pounds } dollars } dollars }	6, 570, 582	41, 118, 784 7, 282, 140 18, 282, 828 505, 440	25, 658, 000 6, 250, 880 17, 160, 784 962, 220	41, 776, 600 7, 664, 880 12, 486, 802 465, 720	24, 642, 500 4, 575, 535 16, 784, 576 923, 440
Cetton fwist and yarn dollars Cotton manufactures dollars Drugs and medicines dollars Dyes:	670, 194 4, 218, 856	508, 908, 176 64, 210, 320 479, 620 6, 872, 040 335, 340	627, 269, 682 74, 149, 620 361, 440 6, 935, 220 340, 200	561, 207, 830 64, 548, 669 1, 574, 640 6, 701, 660 301, 320	514. 486, 365 57, 065, 560 2, 070, 380 7, 771, 140 364, 500
Indigo { pounds { dollars dollars dollars dollars	(*)	12, 967, 760 17, 377, 300 821, 340	9, 124, 192 12, 519, 360 1, 060, 840	12, 368, 904 18, 967, 060 688, 400	11, 248, 006 14, 400, 180 1, 884, 839
Rice, including peddy { tons dollars } bushels dollars } dollars }	735, 485	1, 183, 720 26, 973, 009 8, 275 978 4, 019 220 22, 139 831, 960	974, 008 23, 157, 900 2, 004, 156 2, 286, 280 28, 435 3, 122, 680	1, 143, 296 25, 511, 460 4, 686, 767 4, 408, 160 41, 248 991, 440	1, 116, 184 28, 240, 940 16, 426, 827 9, 515, 880 26, 629 1, 644, 860
Hemp and manufactures of the delians  Hides and skins	22, 906, 017	714, 420 7, 506, 240 345, 000	94, 497, 752 869, 940 9, 066, 400 883, 940 18, 168, 181	28, 716, 396 942, 840 7, 498, 296 906, 190 19, 414, 183 76, 872, 180	32, 231, 564 1, 494, 540 9, 578, 240 274, 220 10, 604, 121 73, 288, 952
Hotus dollars dollars.  Ivery and manufactures of dellars.  Jewelry and precious stones dellars tons  Juse dellars dellars.  Jute manufactures dellars.	268, 412	301, 320 631, 500 247, 660 343, 188 16, 696, 960 961, 720	375, 940 450, 840 442, 380 302, 651 15, 780, 420 1, 161, 540	14, 312, 700 408, 390 508, 620 373, 680 291, 568 13, 602, 300 2, 876, 540	14, 580, 000 675, 540 289, 280 206, 862 12, 815, 820 3, 494, 346
Lee (dys, shell, &c.)   pounds,   dollars   dollars   dollars   chosts   dollars   tons   dollars   dollars   dollars   dollars   dollars   dollars	1, 621, 016 82, 908 55, 531, 818 29, 063	1, 278, 190 88, 727	8, 584, 016 1, 224, 440 1, 720, 440 94, 746 58, 806, 440 80, 966 2, 434, 860	11, 001, 246 3, 674, 000 2, 070, 380 88, 359	14, 415, 744 2, 600, 820 1, 754, 180 130, 775 60, 286, 880 26, 112 1, 854, 926
Seeds   tons   dollars   pounds   dollars   pounds   dollars   dollars   dollars   dollars   dollars   founds   dollars   founds   dollars   founds   dollars   founds   dollars   founds   dollars   founds   dollars   founds   dollars   founds   dollars   dollars   dollars   founds   dollars   dollars   founds   dollars   founds   dollars   founds   dollars   founds   dollars   founds   f	2, 373, 839 6, 844, 730 973, 000 14, 421, 652 833, 004 75, 225, 836	248, 248 11, 474, 480 2, 392, 230 5, 558, 360 1, 180, 400 25, 868, 804 1, 156, 680 37, 740, 080 1, 870, 520 19, 442, 279 8, 529, 300 811, 620	848, 200 15, 726, 960 1, 788, 769 8, 873, 420 1, 230, 300 17, 050, 862 962, 280 62, 637, 904 1, 914, 840 21, 892, 760 9, 540, 180 1, 278, 180	\$66, 392 \$6, 545, 320 1, 417, 618 2, 196, 720 1, 258, 460 25, 266, 851 1, 183, 660 56, 829, 136 1, 882, 220 24, 501, 220 10, 606, 380 835, 920	\$36, 848 25, 856, 840 1, 808, 490 4, 802, 960 1, 156, 680 18, 247, 805 1, 492, 029 128, 296, 804 4, 856, 146 27, 925, 400 12, 783, 206 447, 136
Wood and manufactures ( consistence of	1, 847, 960 20, 821, 632 4, 187, 376 1, 718, 496 10, 409, 396	51, 124 2, 026, 760 20, 981, 108 4, 099, 620 1, 166, 100 0, 190, 880	42, 868 1, 764, 180 21, 443, 135 4, 644, 760 1, 030, 329 5, 761, 766	1, 793, 920 24, 188, 639	48, 108 1, 817, 640 94, 586, 131 6, 360, 560 1, 127, 529 7, 239, 213
Total exports of merchandissdollara  Less foreign merchandissdollara  Total Indian merchandissdollara					
Total Indian merchandish and treasure dollars	-				

<sup>\*</sup> Inclosed, with indigo.
† Quantities of raw bomp only.
† Teek timber only.

BRITISE INDIA-Continue.

amortal (re-amorts of foreign articles included).

10772.	1979.	3800.	1801.	Unite	1003.	290L	3965.
80, 4/0, 600 6, 531, 540 4, 556, 750 734, 140	26, 254, 666 7, 522, 266 31, 254, 564 913, 686	40, 488, 000 7, 026, 860 14, 847, 840 884, 620	41, 85k, 000 6, 227, 606 14, 556, 256 516, 300	20, 454, 000 7, 144, 300 26, 703, 460 405, 720	44, 180, 800 4, 804, 840 18, 906, 446 776, 736	88, 318, 130 T, 144, 500 16, 518, 140	
\$67, 888, 616 68, 638, 829 8, 629, 746 7, 133, 040 68, 499	802, 154, 736 86, 662, 040 4, 636, 666 7, 844, 846 427, 686	642, 229, 312 84, 104, 709 6, 637, 049 7, 648, 649 617, 329	808, 855, 378 84, 356, 130 6, 463, 800 8, 641, 800 653, 300	426, 555, 726 73, 613, 260 6, 916, 660 9, 264, 660 848, 136	001, 660, 376 78, 368, 360 8, 107, 666 10, 071, 660 764, 440	670, 057, 883 68, 986, 750 8, 667, 886 11, 864, 966 803, 780	647, 818, 666 64, 971, 606 13, 188, 678 16, 198, 808
13, 807, 700 20, 900, 866 1, 871, 160	11, 765, 713 14, 865, 000 1, 944, 000	11, 204, 730 14, 323, 430 1, 251, 460	18, 868, 446 17, 358, 930 1, 678, 930	14, 840, 884 21, 913, 746 1, 660, 220	15, 796, 699 19, 017, 180 1, 354, 880	12, 605, 660 25, 665, 260 1, 324, 760	20, ant, 700
1, 008, 004 88, 727, 000 11, +68, 550 18, 007, 640 60, 014 1, 864, 900	1, 189, 000 48, 677, 040 1, 672, 644 2, 567, 200 84, 663 1, 673, 560	1, 940, 1886 44, 631, 560 4, 100, 495 6, 462, 640 41, 117 1, 662, 400	1, 504, 594 44, 017, 020 18, 804, 607 15, 861, 0+0 83, 064 1, 822, 236	1, 615, 238 44, 374, 880 36, 315, 200 43, 104, 300 66, 664 1, 616, 380	1,754,586 41,164,100 30,466,064 31,667,546 63,566 1,663,566	1, 514, 260 44, 844, 100 30, 302, 070 65, 254, 300 51, 760, 446	1, 254, 500 34 861, 576 56, 644, 576 36, 664, 576
\$4, 196, 656 1, 636, 826 4, 194, 644 251, 860 \$2, 961, 618 301, 464, 844 18, 356, 636	29, 843, 170 1, 051, 620 8, 110, 860 254, 620 81, 827, 888 86, 644, 684 18, 886, 380	37, 744, 000 1, 594, 000 4, 736, 130 190, 200 34, 200, 864 107, 876, 976 36, 146, 000	30, 603, 236 8, 2-1, 366 6, 855, 892 904, 940 23, 441, 666 91, 619, 660 16, 164, 660	71, 504, 925 7, 300, 006 974, 100 94, 002, 648 91, 854, 650 16, 187, 906	22, 000, 742 ), 734, 620 8, 013, 720 213, 840 36, 838, 940 97, 643, 640 21, 668, 710	37, 560, 136 1, 929, 420 8, 964, 620 344, 200 39, 163, 600 361, 427, 640 35, 601, 330	114, 007, 823 98, 001, 800
847, 700 463, 720 524, 700 808, 215 17, 007, 400 8, 747, 000	600, 400 694, 300 837, 197 39, 466, 900 8, 234, 386	829, 340 408, 800 835, 340 874, 117 31, 236, 300 6, 647, 700	949, 846 447, 130 202, 440 385, 349 10, 119, 240 6, 496, 689	916, 900 471, 420 510, 140 610, 678 34, 445, 846 6, 831, 420	904, 250 944, 230 915, 0po 978, 660 36, 416, 430 7, 321, 660	783, 090 481, 140 294, 744 383, 007 32, 817, 136 6, 463, 260	301, 946 467, 1648 28, 461, 404 7, 1601, 188
11, 730, 304 1, 730, 320 1, 823, 300 93, 823 60, 343, 560 21, 744 1, 641, 940	36, 303, 466 1, 456, 000 2, 643, 540 91, 290 68, 166, 849 21, 405 1, 788, 230	7, 884, 800 1, 803, 900 2, 836, 840 163, 507 88, 608, 758 28, 525 2, 204, 300	8, 700, 135 2, 800, 4-0 2, 800, 250 02, 180 68, 606, 080 18, 788 1, 719, 720	13, 177, 136 2, 404, 346 2, 400, 346 68, 336 68, 418, 829 10, 672 1, 748, 600	12, 500, 100 2, 100, 100 91, 700 06, 707, 000 12, 376 1, 800, 540	12, 523, 665 1, 607, 260 2, 627, 500 91, 600 64, 0-2, 510 27, 863 2, 250, 040	2, 934, 466 2, 744, 449 86, 677 86, 679, 486 25, 207 1, 666, 660
663, 828 35, 719, 889 1, 624, 665 8, 643, 660 621, 840 1, 306 280 1, 306 280 361, 719, 744 4, 321, 660 38, 656, 715 34, 861, 859 466, 860	20,72 30 1,82 15 8,01 90 1,01 90 11,01 90 41,77 51 1,71 90 14,01 27 14,41 90 14,41 90	403, 778 28, 525, 600 1, 672, 500 2, 636, 440 1, 210, 140 16, 651, 301 1, 540, 776 1, 404, 540 36, 400, 635 14, 803, 520 484, 680	877, 694 81, 668, 120 1, 569, 690 8, 660, 490 1, 215, 600 17, 631, 636 1, 780, 840 73, 187 473 2, 464, 920 66, 918, 630 689, 120	007, 048 28, 473, 900 1, 274, 513 3, 154, 064 1, 219, 060 16, 144, 300 1, 304, 8.9 110, 404, 103 3, 514, 640 48, 235, 602 17, 302, 180 865, 206	7/m /m 35, 621, 169 1. 633, 849 2. 801, 430 1, 492, 620 20. 657, 153 1. 024, 620 150, 076, 320 4. 800, 840 66, 223, 840 18, 171, 540 366, 620	975, N42 46, 617, 989 1 739, 187 3, 785, 829 1, 230, 869 18, 814, 877 1, 914, 669 180, 642, 764 5, 734, 869 66, 473, 119 26, 601, 246 840, 780	1, 650, 807 86, 250, 094 1, 797, 865 2, 476, 190 1, 797, 190 22, 707, 190 3, 604, 960 340, 113, 600 8, 147, 707 20, 147, 706
54, 962 2, 230, 740 28, 612, 963 4, 688, 6,30 1, 063, 710 7, 040, 705	27, 487 1, 864, 929 27, 861, 664 8, 864, 609 9-1, 720 7, 161, 309	36, 623 1, 683, 606 36, 666, 852 5, 773, 680 797, 326 7, 215, 366	48, 649 2, 653, 660 25, 748, 121 6, 601, 460 1, 122, 060 1, 966, 296	66, 367 2, 788, 620 26, 757, 852 6, 064, 12J 1, 146, 080 7, 864, 081	80, 190 3, 285, 920 30, 360, 227 4, 874, 560 360, 360 8, 847, 930	46, 471 \$, 833, 360 25, 229, 180 4, 777, 389 763, 650 10, 36e, 276	2, 651, 665 98, 550, 177 4, 666, 364 788, 666
\$16, 802, 663 6, 921, 895	203, 942, 948 10, 622, 414	838, 461, 548 18, 800, 500	862, 222, 660 12, 500, 666	12, 003, 044	13, 621, 171	427, 816, 778 14, 708, 304	
384, 577, 670 30, 673, 786	263, 220, 543 18, 094, 130	3)3, 0\$1, 179 3, 873, 946	348, 721, 436 6, 848, 684	8, 833, 660	301, 704, 868 4, 767, 274	413, 162, 473 4, 761, 600	0, 577, 200
817, 861, 460	304, 283, 005	338, 066, 997	834, 871, 154	800, 814, 191	360, 474, 349	417, 404, 101	414, 197, 963

## LABUAN.

# Value of imports, including bullion

Countries.	1878.	1874.	1875.	1876.	1877.
	Dollare.	Dollars.	Dollars.	Dollars.	Dollars.
Hong-Kong	11,012	6, 172		28, 279	19, 634
Singapore	176, 870	226, 764	826, 006	<b>343, 927</b>	415, 884
Borneo and Sooloo Islands	200, 169	204, 337	254, 122	247, 800	205, 208
All other		20	•••••	667	200
Total	<b>887,</b> 551	487, 293	590, 128	615, 783	740, 926

# Value of exports, including bullion

Countries.	1873.	1874.	1875. 1876.	1876.	1877.
	Dollare.	Dollars.	Dollars.	Dollars.	Dollare.
Hong-Kong	5, 832		1, 367	6, 818	12, 150
Singapore	196, 830	268, 356	304, 722	803, 264	426, 708
Borneo and Sooloo Ialands	200, 282	204, 120	245, 480	238, 626	292, 572
Coals supplied to ships	8, 512	9, 169	4, 144	962	8, 436
Total	411, 406	481, 645	555, 663	549, 100	784, 866

LABUAN.

# and specie, from the several countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.			· · · · · · · · · · · · · · · ·	
89, 944	12, 150	18, 954	13, 268		•••••		
379, 566	340, 200	876, 650	470, 448				
346, 060	<b>36</b> 0, 126	417, 474	400, 950		••••••		
	3, 626	811	403		•••••	•••••	
765, 570	716, 102	813, 889	885, 069			•••••	

## and specie, to the several countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1995.
Dollars.	Dollars.	Dollare.	Dollare.				
24, 300	87, 969	17, 496	16, 524	•••••	•••••		
<b>382, 482</b>	451, 178	449, 064	555, 190	•••••		• • • • • • • • • • • • • • • • • • • •	
346, 518	339, 952	<b>381, 437</b>	864, 011			•••••	· · · · · · · · · · · · · · · · · · ·
7, 863	•••••	<b>3, 286</b>	11, 508			•••••	•••••
761, 168	829, 094	<b>801, 288</b>	947, 233				

LABUAN—Continued.

# Quantities and value of principal

Articles.	1873.	1874.	1875.	1876.	1877.
Beeswax	17, 733	42, 800	27, 833	8, <b>80</b> 0	17, 733
	6, 318	15, 066	11, 664	<b>3, 280</b>	8, 845
Birds' nests	24, 400	17, 600	16, 400	18, 830	36, 067
	22, 356	17, 496	17, 496	19, 245	43, 254
Brasswaredollars	3, 324	2, 756	7, 290	6, 818	13, 122
Camphordollars	5, 346	6, 804	13, 122	16, 524	20, 997
Cash (copper coin)dollars	3, 037	44, 712	65, 610	50, 544	36, 450
Gunny bags	14, 650 2, 581 41, 796	29, 600 5, 832 15, 066	42, 000 6, 318 11, 664	5, 589 15, 066	4, 957 14, 094
Opium	12 <u>1</u> 8, 262 826		22 18, 122 10, 692	10, 206 14, 580	13, 608 6, 318
Pearl shell	67, 068	66, 040	110, 822	135, 108	206, 064
Provisions dollars dollars dollars dollars	1, 978	2, 678	3, 431	6, 80 <u>4</u>	11, 178
	6, 804	8, 262	22, 856	15, 066	12, 150
Ricedollars	23, <b>32</b> 8	36, <b>936</b>	47, 142	<b>34, 297</b>	84, 855
Sego and sago flourdollars	<b>6</b> 8, <b>52</b> 0	108, 378	131, 706	<b>132,</b> 192	148, 716
Tobacco and cigarsdollars Tortoise shellsdollars	5, 832	2, 920	5, 346	4, 510	8, 262
	9, 204	5, 832	8, 262	10, 206	7, 290
Trepang (sea slugs)	21, 883	55, 0 <del>66</del>	68, 600	90, 133	14 <b>6, 66</b> 7
	13, 122	7, 776	6, 318	6, 804	16, 524
All other articlesdollars	97, 843	77, 131	88, 267	129, 404	184, 742
Totaldollars	<b>387</b> ; <b>551</b>	437, 293	580, 128	615, 733	740, 926

# Quantities and value of domestic and foreign

Articles.	1873.	1874.	1875.	1876.	1877.
Domestic:	2, 596	3, 373	1, <b>4</b> 89	520	940
	13, 122	16, 524	7, 290	2, 585	4, 515
Sago flour { tons { dollars	2, <b>69</b> 0, 533	5, 471, 067	5, 818, 933	5, <b>666</b> , 000	8, 588, 000
	54, 432	113, 724	123, 444	110, <b>492</b>	203, 573
All otherdollars	•	486	1, 166	2, 884	1, 108
Total domesticdoilars Foreign productsdoilars	67, 554	130, 784	131, 900	115, 911	211, 196
	344, 102	350, 911	423, 765	433, 249	528, 670
Total exportsdollars	411, 656	481, 645	<b>555, 663</b>	549, 160	784, 866

LABUAN-Continued.

imports, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
27, 200	17, 067	10, 400	26, 000			•••••	
11, 064	4, 840	3, 543	6, 998	•••••	••••••		******
41, 067	62, 267	51, 467	27, 867			•••••	
45, 684	<b>5</b> 7, 348	51, 516	<b>81, 590</b>		•••••	• • • • • • • • • • • • • • • • • • • •	
6, 804	4, 345	9, 380	21, 870			•••••	
20, 946	7, 630	7,776	6, 026				
<b>27</b> , 216	13, 122	3, 037					
	32, 500	46, 445	29, 340			••••	
8, 169	8, 771	5, 844	8, 486			•••••	
12, 150	33, 048	99, 144	153, 090	••••••		**********	•••••
	84	24	26				
11, 654	18, 468	15, 066	19, 294				
10, 206	4, 627	1, 506	6, 075	••••••	•••••		••••••
	35, 067	126, 800	60, 583	• • • • • • • • • • • • • • • • • • • •			
	4, 952	<b>80, 938</b>	15, 635				••••••
145, 751	128, 444	161, 838	214, 826		•••••	*****	
16, 524	19, 294	19, 926	39, 609				
23, 814	41, 310	44, 226	89, 852	•••••			
102, 546	75, 816	74, 844	66, 096				
181, 761	182, 250	141, 426	110, 808		•••••	•••••	
8, 748	14, 094	13, 608	11, 178				
15, 552	5, 540	6, 804	5, 978		••••••		•••••
80, 133	106, 183	140, 933	71, 383				•
8, 748	8, 748	17, 982	7, 290		••••		• • • • • • • • • • •
112, 630	93, 455	103, 485	125, 918	••••••			
765, 570	716, 102	813, 889	885, 069	•			

# exports, exclusive of exports in native-vessels.

1878.	1879.	1880.	1881.	1882.	1888.	1894.	1885.
1, 486 7, 776	2, 553 11, <b>30</b> 4	587 8, 713	1, 212 7, <b>6</b> 54	• • • • • • • • • • • • • • • • • • • •	••••••		••••••
4, 195, 467 118, 934	5, <b>96</b> 1, 967 157, 070	4, 996, 267 131, 978	4, 361, 783 101, 545				
98, 541	10, 620	8, 689	5, 846				•••••
225, 251 585, 912	178, <b>994</b> 650, 100	189, 880 661, 903	114, 545 832, 688		•••••		•••••
761, 163	829, 094	801, 283	947, 233			•••••	

#### STRAITS SETTLEMENTS.

## Value of imports, including bullion

Countries.	1878.	1874.	1875.	1876.	1877
United Kingdom Australacia India Ceylon Hong-Kong Labuan Mauritius All other	237, 132 6, 908, 352 46, 109 5, 222, 079 150, 089 1, 251	Dollars. 10, 403, 225 254, 070 6, 980, 909 28, 700 5, 975, 350 279, 948 174	Dollars. 8, 668, 022 826, 057 6, 454, 319 83, 406 8, 854, 670 814, 765 9, 880	Dollars. 10, 289, 420 340, 280 7, 784, 820 86, 190 4, 926, 070 237, 350 8, 384 87, 890	Dollars. 13, 201, 860 156, 220 6, 406, 100 89, 010 5, 807, 800 280, 620
Total United Kingdom and Possesions.	23, 509, 812	23, 922, 376	19, 161, 119	23, 604, 904	26, 027, 880
Austria Germany Holland Dutch India	762, 840 805, 858	837, 960 189, 618 6, 742, 270	594, 712 831, 232 6, 760, 792	643, 900 213, 380 5, <b>62</b> 8, 250	862, 920 164, 500 7, 015, 220
France French Possessions Spanish Possessions Sarawak and Borneo China	2, 431, 584 457, 797 629, 057 788, 690	970, 171 2, 201, 469 431, 919 445, 564 855, 000	787, 617 2, 350, 148 603, 181 449, 798 1, 121, 672	784, 430 1, 704, 790 469, 580 530, 118 1, 241, 740	746, 369 1, 275, 739 279, 160 643, 430 1, 081, 470
Cochin China Japan Malay Peninsula. Siam United States All other foreign countries	20, 702 2, 881, 342 2, 843, 232 1, 011	6, 117 2, 696, 906 2, 839, 468 99 272, 635	173, 557 8, 086, 009 2, 963, 911 88, 924 396, 689	20, 210 8, 041, 840 3, 384, 940 8, 460 472, 057	48, 880 8, 883, 060 8, 029, 150 73, 790 402, 663
Total from foreign countries Penang and Malacca	48, 688, 861 4, 193, 932	42, 391, 570 4, 495, 500	38, 889, 361 4, 876, 7(19	41, 748, 549 8, 717, 921	45, 083, 738 4, 298, 784
Total imports	47, 882, 293	46, 887, 070	43, 766, 070	45, 466, 470	49, 827, 517
PENANG.  United Kingdom	1, <b>866</b> , 382 2, 555, 386 23, 054 1, 282, 814	1, 817, 699 2, 870, 290 2, 649 1, 764, 856	1, 778, 490 8, 816, 084 24, 466 1, 663, 218	2, 175, 650 8, 161, 280 747 2, 050, 610 8, 980	8, 297, 050 2, 6, 9, 780 1, 043 2, 339, 660 801
Total United Kingdom and Possessions.  Germany Holland Dutch Possessions Italy	801 8, 556, 506	6, 455, 494 79, 515 8, 532, 477	6, 782, 258 111, 509 14, 670 8, 583, 796	7, 397, 217 115, 150 12, 240 2, 443, 890	8, 247, 834 247, 690 8, 460 8, 196, 470
France. French Possessions. China. Malay Peninsula. Siam United States. All other foreign countries	603 170, 144 826, 998 2, 972, 619	6, 110 898 865, 558 665, 778 2, 844, 643	4, 893 71, 986 297, 856 1, 065, 212 2, 292, 276 68, 950	2, 298 7, 050 219, 490 978, 070 2, 295, 480	907 118, 270 728, 460 948, 460 2, 252, 710 89, 480 58, 887
Total from foreign countries Singapore and Malacca	12, 429, 005 2, 145, 009	14, 017, 907 8, 005, 554	14, 805, 173 1, 945, 518	13, 578, 633 2, 285, 240	15, 837, 078 1, 819, 840
Total imports	14, 574, 014	17, 023, 461	16, 250, 691	15, 863, 873	17, 656, 918
MALACCA.	<b>400</b> - A0	<b>E</b> A PF4	00 000	72 #76	140 400
Dutch Possessions  Malay Peninsula  All other foreign countries	157, 147 758, 917 <b>2, 6</b> 97	59, 754 891, 598 10, 402	90, 807 996, 949 6, 624	75, 670 709, 230 6, 478	149, 460 720, 040 4, 786
Total from foreign countries Singapore and Penang	919, 761 1, 418, 567	961, 754 2, 245, 697	1, 094, 420 2, 026, 444	791, 878 1, 662, 860	874, 236 906, 160

<sup>\*</sup>In the British official returns for the Straits Settlements the value, in details, of the imports and exports is given in deliars, reduced from the £ sterling at the following rates: For the years 1873, 1874, and 1875, \$4.70\frac{1}{2}; for the years 1876, 1877, and 1878, \$4.706; for the years 1879, 1880, and 1881, \$5.23\frac{1}{2}. These rates have been adhered to in the Department, in the reduction of sterling into deliars in the statement showing the trade by countries.

#### STRAITS SETTLEMENTS.

and specie, from the several countries."

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollare. 10, 842, 430	Dollars. 11, 605, 009	Dollars. 15, 221, 947	<b>Dollars.</b> 17, 158, 138	Dollars.	Dollars.	Dollars.	Dollars.
98, 238	202, 200	144,000	238, 900		1		
8, 089, 640	7, 890, 400 26, 571	8, 751, 100 43, 098	9, 509, 800 84, 853		• • • • • • • • • • • • • • • • • • • •		
20, 680 5, 414, 400	7, 826, 793	6, 430, 672	5, 886, 144				
234, 430	898, 144	253, 061	597, 582				
	7, 957	4, 789	8, 851		1		
134, 420	•••••					1	
24, 834, 238	†26, 957, 074	80, 851, 662	33, 428, 748				
	17, 013	53, 440	217, 256			1	
788, 460	550, 028	680, 528	946, 037				
140, 532	80,776	89, 457	72, 971	•••••			
7, 133, 546	9, 184, 464	9, 312, 741	12, 770, 072	••••••	N .		1
	92, 090	67,717	85, 833	************	4	4	
351, 040 976, 660	783, 088 1, <b>6</b> 81, 509	839, 264 965, 499	823, 845 1, 662, 782	••••••••••			
405, 140	553, 845	502, 283	575, 419				
628, 390	886, 411	786, 272	783, 405				•
1, 151, 200	1, 922, 871	1, 114, 016	1, 318, 795	• • • • • • • • • • • • • • • • • • • •			
8, 460	221, 856 136, 539	<b>863,</b> 056 <b>645,</b> 569	852, 617 1, 234, 021		1	· ·	
3, 898, 570	3, 727, 341	2, 989, 761	8, 657, 856		l .	1	
2,661,310	4, 563, 752	4, 790, 992	5, 806, 781	••••••			
176, 250	476, 629	441,024	421, 461	••••••			
541, 150	(*)	163, 471	401, 000				
43, 194, 946	51, 613, 878	54, 606, 752	64, 558, 349				
4, 064, 891	4, 664, 414	6, 068, 981	6, 111, 833		• • • • • • • • • • • • • • • • • • • •		
47 050 222	ER 970 900	60 675 722	70 800 800				
47, 259, 337	56, 278, 292	60, 675, 733	70, 669, 682				**********
			1		i		
	4 505 000	0.010.000	'   5 007 400				
<b>6,</b> 040, 910	4, 505, 660	3, 910, 929	8, 295, 460	••••••		·•••••••••••••••••••••••••••••••••••••	••••••
4, 068, 820	3, 781, 864	4, 108, 265	5, 108, 270				
978	42, 867	48, 858	<b>36,</b> 800				
2, 134, 740	2, 747, 736	2, 506, 140	2, 967, 469			••••••	••••••
<b>37, 600</b>	***************************************					•••••••	•••••
					1		
12, 282, 548	11, 078, 127	10, 574, 192	11, 407, 999		,	•••••	•••••
171, 080	164, 800 19, 734	149, 000 13, 832	204, 300 16, 000				
12, 690 3, 210, 100	3, 412, 264	2, 222, 400	1, 789, 266	••••••••••			
	32, 835	5, 070	70, 945				
7, 520	5, 884	3, 296	11,727				
129, 250	85, 872	75, 200	120, 000		•••••		
<b>842, 63</b> 0 <b>1, 190, 04</b> 0	<b>395</b> , 788 1, <b>60</b> 0, 534	174, 915 1, 821, 343	450, <b>663</b> 4, 096, 550				
1, 504, 470	1, 592, 527	<b>2, 26</b> 9, 319	10 118			• • • • • • • • • • • • • • • • • • • •	,
102, 460	150, 400	47, 485	54, 917				•••••
84, 843	29, 283	145, 489	132, 651				
19, 037, 631	18, 572, 998	17, 501, 041	18, 865, 136				••••
1, 825, 010	2, 245, 200	2, 223, 481	2, 130, 600	••••			*************
90 440 641	20 010 100	10 704 500	90 405 790				
20, 862, 641	20, 818, 198	19, 724, 522	20, 493, 738				
<b>67</b> , 210	152, 144	146, 064 1, 254, 411	54, 235	••••••			•••••
837, 070 4, <b>6</b> 59	1, 207, 079 2, 069	2, 189	1, 579, 084 16, 402			4444	
908, 939	1, 861, 292	1, 402, 664	1, 649, 721		•••••	• • • • • • • • •	
1, 884, 700	1, 357, 051	1, 915, 182	2, 014, 509				
2, 793, 639	2, 718, 848	8, 817, 848	8, 664, 230		<del></del>		
<b>A</b> / <b>A</b> · <b>·</b> · · · · · · · · · · · · · · · ·							

<sup>†</sup> The distribution by countries for the year 1879 amounts to \$220,903 more than the total.

## STRAITS SETTLEMENTS-Continued.

# Value of exports, including bullion

Dollars	6, 711, 600 218, 050 1, 075, 890 38 10 8, 164, 980 232, 650 77, 080 97, 760  11, 586, 370  18 477, 700 5, 170 9, 367, 570 18 9, 367, 570 18 19 10 11, 586, 370 11, 586, 370 11, 586, 370 11, 586, 370 12, 842, 560 218, 850 449, 820 817, 830 17 18 19 10 11 11 11 11 11 11 11 11 11 11 11 11	218, 910 1, 809, 830 46, 060 2, 512, 150 223, 720 105, 220 128, 780  13, 004, 290  171, 550  10, 432, 740  1, 189, 570 8, 009, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
United Kingdom	6, 711, 600 218, 050 1, 075, 890 38 10 8, 164, 980 232, 650 77, 080 97, 760  11, 586, 370  18 477, 700 5, 170 9, 367, 570 18 9, 367, 570 18 19 10 11, 586, 370 11, 586, 370 11, 586, 370 11, 586, 370 12, 842, 560 218, 850 449, 820 817, 830 17 18 19 10 11 11 11 11 11 11 11 11 11 11 11 11	7, 966, 560 212, 910 1, 809, 830 46, 060 2, 512, 150 223, 720 105, 220 128, 780  13, 004, 290  171, 550  10, 432, 740  1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
United Kingdom	6, 711, 600 218, 050 1, 075, 890 38 10 8, 164, 980 232, 650 77, 080 97, 760  11, 586, 370  18 477, 700 5, 170 9, 367, 570 18 9, 367, 570 18 19 10 11, 586, 370 11, 586, 370 11, 586, 370 11, 586, 370 12, 842, 560 218, 850 449, 820 817, 830 17 18 19 10 11 11 11 11 11 11 11 11 11 11 11 11	7, 966, 560 212, 910 1, 809, 830 46, 060 2, 512, 150 223, 720 105, 220 128, 780  13, 004, 290  171, 550  10, 432, 740  1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Australasia	218, 050 1, 075, 890 38 3, 164, 980 232, 650 77, 080 97, 760  11, 586, 370  18 477, 700 5, 170 9, 367, 570  20 889, 240 2, 842, 560 218, 850 449, 320 817, 830  20 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 89 4, 202, 740	218, 910 1, 809, 830 46, 060 2, 512, 150 223, 720 105, 220 128, 780  13, 004, 290  171, 550  10, 432, 740  1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
India	1, 075, 890 38, 164, 980 232, 650 77, 080 97, 760  11, 586, 370 18, 477, 700 5, 170 9, 367, 570 18 9, 367, 570 19 11, 586, 370 18 18, 850 449, 320 17 18, 850 449, 320 18, 850 449, 320 17 18, 009, 170 4, 057, 800 2, 052, 020 643, 943 19 10 11, 586, 370 12, 040 13, 850 149, 320 150 160 17 180 180 180 180 180 180 180 180 180 180	1, 809, 830 46, 060 2, 512, 150 223, 720 105, 220 128, 780  13, 004, 290  171, 550  10, 432, 740  1, 189, 570 8, 009, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Caylon	8, 164, 980 232, 650 77, 080 97, 760 97, 760 11, 586, 370 18, 477, 700 5, 170 9, 867, 570 20, 842, 560 218, 850 449, 820 817, 880 17, 880 18, 009, 170 4, 057, 800 2, 052, 020 643, 943 10, 202, 740	2, 512, 150 223, 720 105, 220 128, 780 13, 004, 290 171, 550 10, 432, 740 1, 189, 570 8, 009, 880 202, 570 429, 110 1, 014, 730 1, 989, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Hong-Kong	8, 164, 980 232, 650 77, 080 97, 760 97, 760 11, 586, 370 18, 477, 700 5, 170 9, 867, 570 20, 842, 560 218, 850 449, 820 817, 880 17, 880 18, 009, 170 4, 057, 800 2, 052, 020 643, 943 10, 202, 740	2, 512, 150 223, 720 105, 220 128, 780 13, 004, 290 171, 550 10, 432, 740 1, 189, 570 8, 009, 880 202, 570 429, 110 1, 014, 730 1, 989, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Mauritius	77, 080 97, 760 11, 586, 370 18, 477, 700 5, 170 9, 367, 570 20, 889, 240 218, 850 218, 850 218, 850 218, 850 317, 880 817, 880 10, 4, 057, 800 2, 052, 020 648, 943 10, 202, 740	105, 220 128, 780 13, 004, 290 171, 550 10, 432, 740 1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730 1, 969, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Total United Kingdom and Possessions	97, 760  11, 586, 370  18, 477, 700 5, 170 9, 367, 570  20, 889, 240 2, 842, 560 218, 850 449, 320 817, 880  20, 817, 880 21, 850 21,	128, 780  13, 004, 290  171, 550  10, 432, 740  1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Secsions	477, 700 5, 170 9, 867, 570 889, 240 2, 842, 560 218, 850 449, 320 817, 880 60 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 9 4, 202, 740	171, 550  10, 432, 740  1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730  1, 969, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Austria Germany 78, 163 226, 810 652, 11 Holland 9, 880 Dutch Possessions 10, 096, 930 9, 139, 463 9, 526, 21 Italy 514, 802 514, 851 1, 336, 22 French Possessions 8, 652, 962 8, 204, 100 2, 756, 05 Spanish Possessions 284, 809 263, 009 243, 80 Sarawak and Borneo 622, 001 557, 963 477, 56 China 1, 514, 069 877, 012 957, 46 Cochin China 1, 822, 941 1, 678, 568 2, 811, 07 Siam 2, 488, 474 2, 991, 439 3, 535, 45 United States 2, 535, 524 2, 486, 592 2, 444, 24 All other 489, 462 307, 560 1, 441, 96  Total to foreign countries 37, 572, 905, 44, 448, 675 86, 293, 93 To Penang and Malacca 41, 752, 145 41, 508, 998 41, 619, 51  PENANG. United Kingdom 8, 846, 808 2, 877, 637 8, 663, 31	477, 700 5, 170 9, 867, 570 889, 240 2, 842, 560 218, 850 449, 320 817, 880 60 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 9 4, 202, 740	171, 550  10, 432, 740  1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730  1, 969, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Germany       78, 163       226, 310       652, 11         Holland       9, 880       10, 096, 930       9, 139, 463       9, 526, 21         Italy       514, 303       514, 351       1, 336, 22         France       514, 303       8, 652, 962       8, 204, 100       2, 756, 05         Spanish Possessions       234, 309       263, 009       243, 30         Sarawak and Borneo       622, 001       557, 963       477, 55         China       1, 514, 069       877, 012       957, 46         Cochin China       1, 822, 941       1, 673, 568       2, 811, 07         Siam       2, 488, 474       2, 991, 439       8, 585, 45         United States       2, 535, 524       2, 496, 592       2, 444, 24         All other       489, 462       307, 560       1, 441, 96         Total to foreign countries       87, 572, 905       34, 448, 675       36, 293, 93         Total exports       41, 752, 145       41, 506, 998       41, 619, 51         FENANG.         United Kingdom       8, 846, 808       2, 877, 637       8, 663, 31	5, 170 9, 867, 570 889, 240 2, 842, 560 218, 850 449, 320 817, 830 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 9 86, 412, 043 4, 202, 740	10, 432, 740  1, 189, 570 8, 009, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Holland 9, 880 10, 096, 930 9, 139, 463 9, 526, 21   Italy	9, 367, 570 889, 240 2, 842, 560 213, 850 449, 320 817, 830 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 9 4, 202, 740	10, 432, 740  1, 189, 570 8, 009, 880 202, 570 429, 110 1, 014, 730  1, 989, 510 8, 509, 260 2, 499, 540 422, 777  88, 465, 527 2, 962, 880
Italy       514, 303       514, 851       1, 336, 25         French Possessions       3, 652, 962       3, 204, 100       2, 756, 05         Spanish Possessions       234, 809       263, 009       243, 30         Sarawak and Borneo       622, 001       557, 963       477, 55         China       1, 514, 069       877, 012       957, 46         Cochin China       1, 822, 941       1, 673, 568       2, 811, 07         Siam       2, 488, 474       2, 991, 439       3, 535, 45         United States       2, 335, 524       2, 486, 592       2, 444, 24         All other       489, 462       307, 560       1, 441, 98         Total to foreign countries       37, 572, 905;       34, 448, 675       36, 293, 93         Total exports       41, 752, 145       41, 508, 998       41, 619, 51         FENANG.       41, 752, 145       41, 508, 998       41, 619, 51         FENANG.       3, 846, 808       2, 877, 637       3, 663, 31	889, 240 2, 842, 560 213, 850 449, 320 817, 830 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 9 4, 202, 740	1, 189, 570 8, 000, 880 202, 570 429, 110 1, 014, 730 1, 969, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
France French Possessions Spanish Possessions Sarawak and Borneo Cochin China Malay Peninsula Siam United States Total to foreign countries Total exports  United Kingdom  514, 303 S14, 351 1, 336, 25 3, 204, 100 2, 756, 05 234, 809 622, 001 557, 963 477, 55 622, 001 557, 963 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 477, 55 38, 291, 439 3, 535, 45 2, 488, 474 2, 991, 439 3, 535, 45 2, 444, 24 489, 462 307, 560 1, 441, 96 41, 752, 145 41, 508, 998 41, 619, 51  PENANG.  United Kingdom  8, 846, 808 2, 877, 637 8, 663, 31	2, 842, 560 218, 850 449, 820 817, 880 8, 009, 170 4, 057, 800 2, 052, 020 648, 943 80 86, 412, 043 4, 202, 740	8, 000, 880 202, 570 429, 110 1, 014, 730 1, 969, 510 8, 569, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
French Possessions	2, 842, 560 218, 850 449, 820 817, 880 8, 009, 170 4, 057, 800 2, 052, 020 648, 943 80 86, 412, 043 4, 202, 740	8, 000, 880 202, 570 429, 110 1, 014, 730 1, 969, 510 8, 569, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Spanish Possessions       284, 809       263, 009       243, 80         Sarawak and Borneo       622, 001       557, 963       477, 55         China       1, 514, 069       877, 012       957, 46         Cochin China       1, 822, 941       1, 678, 568       2, 811, 07         Siam       2, 488, 474       2, 991, 439       3, 585, 45         United States       2, 535, 524       2, 486, 592       2, 444, 24         All other       87, 572, 905       34, 448, 675       86, 293, 93         To Penang and Malacca       41, 752, 145       41, 506, 998       41, 619, 51         PENANG.         United Kingdom       8, 846, 808       2, 877, 637       8, 663, 81	218, 850 449, 820 817, 880 8, 009, 170 4, 057, 800 2, 052, 020 648, 943 8 8 8, 412, 043 4, 202, 740	202, 570 429, 110 1, 014, 730 1, 989, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Sarawak and Borneo       622,001       557,968       477,55         China       1,514,069       877,012       957,46         Cochin China       1,822,941       1,673,568       2,811,07         Blam       2,488,474       2,991,439       3,635,45         United States       2,535,524       2,486,592       2,444,24         All other       87,572,905       34,448,675       86,293,93         To Penang and Malacca       41,752,145       41,508,998       41,619,51         PENANG.         United Kingdom       8,846,808       2,877,637       3,663,31	449, 320 817, 880 8, 009, 170 4, 057, 800 2, 052, 020 643, 943 80 86, 412, 043 4, 202, 740	1, 989, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 902, 880
Cochin China       1, 822, 941       1, 673, 568       2, 811, 07         Siam       2, 488, 474       2, 991, 439       3, 585, 45         United States       2, 535, 524       2, 486, 592       2, 444, 24         All other       87, 572, 905, 4, 179, 2401       34, 448, 675       86, 293, 93         To Penang and Malacoa       41, 752, 145       41, 508, 998       41, 619, 51         PENANG.         United Kingdom       8, 846, 808       2, 877, 637       8, 663, 31	8, 009, 170 4, 057, 800 2, 052, 020 648, 943 80 86, 412, 043 4, 202, 740	1, 989, 510 8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Malay Peninsula       1,822,941       1,673,568       2,811,07         Siam       2,488,474       2,991,439       3,535,45         United States       2,535,524       2,486,592       2,444,24         All other       87,572,905       34,448,675       88,293,93         To Penang and Malacca       41,752,145       41,508,998       41,619,51         PENANG.         United Kingdom       3,846,808       2,877,637       8,663,81	4, 057, 800 2, 052, 020 643, 943 36, 412, 043 4, 202, 740	8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
Slam       2, 488, 474       2, 991, 439       8, 585, 45         United States       2, 535, 524       2, 486, 592       2, 444, 24         All other       489, 462       307, 560       1, 441, 96         Total to foreign countries       37, 572, 905, 4, 179, 240, 7, 060, 828       34, 448, 675, 68, 293, 93, 5, 825, 58         Total exports       41, 752, 145       41, 506, 998       41, 619, 51         PENANG.       3, 846, 808       2, 877, 637       8, 663, 31	4, 057, 800 2, 052, 020 643, 943 36, 412, 043 4, 202, 740	8, 509, 260 2, 499, 540 422, 777 88, 465, 527 2, 962, 880
United States 2, 535, 524 486, 592 2, 444, 24 All other 87, 572, 905, 4, 179, 240, 7, 060, 828  Total exports 41, 752, 145 41, 506, 998 41, 619, 51  PENANG. 8, 846, 808 2, 877, 637 8, 663, 31	2, 052, 020 643, 943 80 86, 412, 043 4, 202, 740	2, 499, 540 422, 777 88, 465, 527 2, 962, 890
All other	643, 943 60 86, 412, 043 4, 202, 740	422, 777 88, 465, 527 2, 962, 880
To Penang and Malacca 4, 179, 240; 7, 060, 828 5, 825, 58  Total exports 41, 752, 145 41, 508, 998 41, 619, 51  PENANG. 8, 846, 808 2, 877, 637 8, 663, 81	4, 202, 740	2, 962, 880
Total exports	_	
PENANG.  United Kingdom	9 40, 614, 783	41, 428, 407
United Kingdom	1	.
A ustraingia.	3 2, 644, 737	2, 284, 294
		1 003 001
India	9   1,514,669 7   1,400,083	1, 862, 281 1, 537, 062
All other		11, 936
Total United Kingdom and Possessions 7, 340, 262 7, 007, 878 7, 306, 86	5 5, 577, 819	5, 695, 575
	, ,,,,,,,,,	
Germany		63, 068
Holland		8, 302, 628 6, 364, 646
Dutch Possessions 2, 969, 326 4, 429, 287 5, 461, 56 Italy	0, 512, 000	v, ova, va
France 47 43	9	
French Possessions		
China		409, 981
Malay Peninsula	2 898, 893	780, 623
Siam 3, 280, 791, 2, 783, 007 2, 417, 42 United States 88, 454 249, 37		1, 344, 851 45, 402
All other foreign countries		28, 460
Total to foreign countries 14, 859, 737 16, 570, 449 17, 316, 66	6   14, 761, 488	18, 167, 692
To Singapore and Malacca	8 1, 816, 033	2, 634, 278
Total exports	7 16, 587, 521	20, 821, 970
MALACCA.		
Datab Bassasians	22 402	180 483
Dutch Possessions       161, 852       39, 522       84, 21         Malay Peninsula       598, 947       426, 744       434, 27		153, 653 649, 267
Malay Peninsula       508, 947       426, 744       434, 27         All other foreign countries       272       1, 829       16	1 2, 669	3, 087
Total to foreign countries 761, 071 467, 595 518, 65		806, 009
Singapore and Penang		
	1 1, 814, 604	856, 652

## STEATTS SETTLEMENTS-Continued.

and specie, to the several countries.

Dollars. 7, 241, 290 276, 360 1, 880, 940 637, 320	<b>30</b> , 32						
7, 241, 290 276, 360 1, 880, 940 637, 320	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
1, 880, 940 637, 320	7, 992, 565	8, 953, 444	11, 965, 253				
637, 320	185, 829	856, 837	234, 336				
	2, 271, 476	1, 787, 816	2, 587, 203				
0 777 92A I	22, 101 3, 712, 315	<b>52, 68</b> 3 <b>8, 667, 424</b>	40, 021 4, 614, 176				
2, 777, 230   146, 170	110, 869	76, 491	142, 981			•••••••	
141, 940	188, 523	70, 768	57, 632				
122, 670			15, 387		••••••		*****
18, 223, 920	14, 483, 678	14, 915, 468	19, 606, 989				••••
}	93, 008	249, 839	475, 200				
338, 400	336, 651	808, 299	352, 128		1		
4, 564	26, 245	102, 121	28, 183		,		
9, 967, 290	12, 279, 938 <b>62</b> , 293	13, 928, 241 105, 589	14, 022, 629 157, 616		1		
1, 205, 550	1, 527, <b>739</b>	1, 784, 445	1, 511, 820				· ·
2, 780, 990	3, 886, 507	8, 599, 632	3, 573, 083				
208, 040	887, 147	448, 859	608, 912		l.		
596, 900	632, 715	572, 320	330, 093		1		ľ
860, 577	789, 131	2, 429, 282	1, 786, 480				
	303, 451	415, 632	377, 051		1		
2, 672, 420	3, 352, 158	2, 535, 605	8, 802, 480	•••••			
2,606,150	4, 562, 811	4, 219, 448	4, 645, 408		,	1	
2, 302, 069   611, 147	4, 092, 191 4, 052, 628	5, 129, 147 5, 812, 288	4, 281, 344 4, 643, 982		1		
37, 373, 001 2, 648, 920	46, 676, 105 2, 574, 138	51, 426, 453 8, 152, 528	55, 872, 004 2, 629, 184				
40, 021, 921	49, 250, 288	54, 578, 981	58, 001, 188				
2, 945, 772	2, 643, 067	2, 692, 608	2, 448, 859				
	5, 591	93, 040	412, 912				
2, 207, 781	<b>2, 269</b> , 509	2, 500, 768	2, 253, 008	[			• • • • • • • • • • • • • • • • • • • •
1, 746, 288	1, 635, 531	1, 898, 789	1, 171; 685				
14, 476	19, 519	295	2, 245				
6, 914, 217	6, 573, 217	6, 685, 500	6, 288, 709				
	• •	1, 856	101, 845				
2, 210, 081	3, 085, 074	1, 073, 803	29, 893				
8, 917, 216	7, 811, 833	5, 084, 085	8, 976, 128				
			11,099				
67, 069	23, 200	32, 251					
98, 841	60, 299	67, 456	130, 421				
314, 289	837, 664	695, 840	249, 060			1	100000
979, 057	1, 140, 747	1, 674, 672 1, 081, 511	2, 582, 443 115, 040				•••••
2, 046, 145   84, 968	1, 155, 845 444, 267	876, 709	28, 651		1	 	
66, 700	<b>57, 101</b>	148, 329	5, 249	1		1	
21, 648, 583	20, 688, 747	17, 422, 012	18, 518, 538			<b> </b>	]
1, 360, 556	1, 916, 162	2, 416, 107	2, 486, 805				
23, 009, 189	22, 604, 909	19, 838, 119	16, 005, 848				
20, 000, 1.10		20,000,110	10, 000, 010				
72, 450	1 <b>69</b> , 824	197, 904	58, 734				
858, 42 <b>2</b>	<b>622, 656</b>	778, 805	778, 500				
8, 369							
	200 100				\		<del></del>
934, 241	792, 480	976, 709	837, 234	•••••			
1, 682, 842	1, 977, 645	2, 657, 931	8, 082, 197				
2, 617, 043	2, 770, 125	8, 634, 640	3, 919, 431				

## STRAITS SETTLEMENTS-Continued.

# Quantities and value of imports,

Articles.	1878.	1874.	1875.	1876.	1877.
. SINGAPORE.	_				
Appareldollars.	331, 699	555, 588	680, 711	653, 518	631, 529
Cool Stons	121, 127	140, 965	104, 840	146, 672	278, 838
( uoma 3		1, 524, 339 4, 721, 860	9-8, 445 5, 7h7, 376	1, 227, 905 5, 473, 440	1, 757, 516 6, 665, 232
COHES { dollars.	717, 886	786, 394	889, 779	844, 553	1, 003, 477
Cotton goods	6, 919, 483	6, 150, 887	5, 909, 206	3, 162, 969 6, 095, 970	3, 511, 758 6, 594, 598
Cotton sarongs * dollars.				625, 948	687, 284
Cotton twist		2, 039, 632 654, 685	1, <b>896</b> , 528 677, 979	767, 760 635, 748	1, 206, 576 750, 974
Earthen and china waredoilars.	300, 773	821, 143	234, 605	<b>3</b> 23, <b>922</b>	342, 884
Fish, dried or salted { pounds dollars.		14, 196, 000 784, 088	13, 642, 496 639, 284	19, 759, 824 941, 791	16, 365, 216 918, 264
Gambian Spounds	53, 903, 696	56, 020, 496	55, 201, 216	60, 697, 392	63, 293, 328
tone ( tone	·	1, 936, 920 81, 642	2, 128, 926 188, <b>66</b> 8	2, 015, 091 125, 2 <b>9</b> 0	1, 948, 321 99, 325
Grain, rice		2, 677, 635	8, 935, 881	3, 648, 012	3, 364, 303
Gunniesdollars Gutta percha { pounds dollars	5, 785, 472	3, 7.2, 512	2, 165, 070	251, 614 1, 814, 736	269, 104 2, 603, 440
Wandware and anticom	1, 451, 484	840, 241	510, 499	462, U69	775, 600
Hardware and cutlerydollars	5, 179, 152	203, 876 4, 019, 680	252, 912 4, 940, 820	271, 957 <b>5, 3</b> 51, 13 <b>6</b>	298, 569 6, 256, 218
Hides dollars	456, 750	362, 149	448, 708	406, 632	525, 049
Metals:  Tin	•••			4, 423	6, 026
Oil:	• • • • • • • • • • • • • • • • • • • •			1, 521, 151	1, 603, 125
Coccanutdollars	214, 430	188, 377	262, 872	194, 571	831, 071
Kerosene and paraffinedollars Opiumdollars	· • •   · • • • • • • • • • • • • • • •		4, 411, 921	5, 362, 827	4, 781, 520
Panner Spounds	18, 981, 436	21, 782, 656	26, 588, 648	25, 697, 892	27, 030, 976
Precious stones dollars	2, 388, 886	1, 563, 898	2, 019, 226	1, 670, 986 348, 754	1, <b>696</b> , <b>995</b> 285, 540
Petters Stons	12, 906	10, 534	12, 645	9,717	10, 388
aparien )	1 3	•		543, 795 27, 562, 416	593, 587 37, 443, 160
dollars	}	red with sage	(	229, 667	329, 258
Sago flour			49, 469, 168 645, 274	23, 778, 944 429, 063	25, 000, 304 541, 844
Seco poerl Spounds	··· } Tuels	ided with sa		333, 216	577, 136
C mounds	}	incer with perf	o nour.	8, 921 179, 760	11, 153 246, 288
dollars	798, 983	1, 152, 498	571, 320	359, 050	671, 209
Silk, piece goods		798, 074	582, 071	62, 772 452, 257	65, 597 469, 178
gallons				363, 003	
- ( nonnde		12 006 176	10, 813, 264	832, 912	395, 683
dollare	445, 048	448, 324	883, 247	408, 576	479, 131
Tapioca { pounds dollars					
Too Spounds	1, 169, 504		2, 174, 256	3, 172, 400	2, 730, 856
erando )		258, 592 3, 665, 536	326, 777 2, 052, 960	242, 824 3, 921, 120	291, 842 3, 906, 256
dollars	500, 909	470, 401	285, 115	491, 681	520, 175
Cigarsdollars		334, 810	485, 297	346, 725 206, 752	259, 769 251, 043
Woolen Rooms	379, 465		405, 024	363, 554	375, 482
All other articlesdollars	11, 712, 530	12, 779, 373	11, 342, 963	9, 267, 360	10, 706, 161
Total merchandisedollars	42, 477, 411			40, 979, 431	44, 310, 195
Bullion and specie dollars		5, 175, 198	4, 179, 740	4, 087. 039	5, 017, 822
Total imports dollars	47, 882, 293	46, 887, 070	43, 766, 201	45, 066, 470	49, 327, 517
PENANG.					
Cotton goods Spieces				914, 734	1, 444, 750
dollars		1, 719, 593	1, 503, 514	1, 131, 344	1, 490, 355
Cotton, raw { pounds dollars				1, 160, 432	1, 560, 384 153, 854
£ // VI, DI		2, 044, 120			

<sup>\*</sup>Native waist-cloths or petticoats.

### 享了的ALTS 等面で可以出版的方式中Continues.

including builion and specie.

	1879.	1866.	1861.	1882.	1883.	1884.	1695.
1576.	TOUR.	1000	3801.	100F	LOBS.	1006.	1000.
			_				
736, 044	794, 627 169, 797	815, 357 191, 274	2			**********	**********
174, 483 1, 188, 679	1, 361, 908	1, 610, 141	1 1				
5, 131, 802	7, 647, 920	E 001 119	- 44				******
628, 632	983, 586		61				
2, 917, 650	3, 180 159		80 26		*******		***********
5, 101, 089 451, 122	5, 378, 068 634, 649		96	************	**********	**********	
1, 040, 256	818, 844		1 44				
757, 040	541, 547		20				
20, 24	260, 527		\$8				
19, 618, 836	17, 108, 3:56		04 68			**********	
\$20,524 78,677,200	951, 967 71, 172, 408		88		***********		
1, 831, 893	3, 454, 052		.08				
198, 487	189, 964		40		*********		
4, 511, 743	4, 897, 008						,
348, 866	569, 744		100				
3, 727, 200 809, 140	5, 670, 960 1, 757, 585		704 52				
344, 621	253, 565		16			**********	
7, 974, 904	4, 408, 712		9, 721, 938				
650, 498	479, 108		913, 929			**********	*********
							i
5, 268	5, 784	7, 64t	8, 288				
1, 452, 887	1, 953, 741	3, 023, 687	8, 512, 475	***********		***********	*********
808, 697	97X 1000	179, 656	162, 542		l		l
44414	475, 799	435, 615	418, 525				
4, 674, 564	4, 864, 685	5, 806, 098	5, 605, 859		**********		
27, 918, 536	28, 121, 352	16, 581, 712	30, 382, 464	***********			
1, 727, 477 185, 385	2, 036, 048	1, 558, 359 239, 965	2, 658, 884 782, 788		**********	*********	
13, 627	267, 093 18, 330	14, 781	19, 389	************	************		
744, 448	853, 490	979, 229	1, 478, 635				
46, 084, 900	50, 918, 560	58, 442, 816	24, 027, 024	**********		**********	
408, 150	469, 162	497, 778	328, 265	**********			
23, 816, 192	25, 478, 992	19, 030, 908	19, 650, 176		***********		
688, 441 459, 704	597, 068 716, 128	488, 107 188, 120	494, 644 24, 640				***********
129, 86	23, 204	7, 458	704				
868, 746	398, 384	536, 256	383, 633				
799, 556	899, 190	812, 675	846, 781				
55, 881	50, 804	55, 571	75, 075				
877, 977	457, 544	438, 598	491, 672				
278, 652	411, 915	365, 587	824, 442				
491, 371	735, 760	799, 519	575, 516				1
• • • • • • • • • • • • • • • • • • • •	17, 662, 176	29, 796, 245	84,776,776				
8, 329, 536	840, 741 4, 990, 608	1, 072, 868 5, 289, 872	1, 095, 917 8, 994, 952	***********			
278, 817	265, 435	303, 585	343, 206				
3, 165, 680	4, 989, 800	5, 292, 112	8, 997, 952				
425, 259	678, 515	561, 536	648, 484				
326, 528	360, 905	B41, 657	459, 260				
105, 149 222, 228	168 096 208, 020	245,784 866, 815	218, 865 510, 265	•			
10, 328, 764	10, 969, 787	11, 811, 965	14, 944 858		***********		
		23,413,44-					
42, 716, 523	48, 664, 991	54, 161, 674	65, 272, 864				
4, 542, 614	7, 613, 301	6, 614, 059	5, 426, 818				
47, 259, 887	58, 278, 292	60, 675, 738	70, 699, 682				
11, 200, 001	JUL 210, 292	**************************************	10, 000, 002			7	
		A 455 451					
1, 696, 840	1, 987, 149	2, 111, 904	2, 210, 510				
1, 656, 528 2, 197, 280	1, 705, 247 2, 480, 352	1, 957, 458 1, 162, 224	1 988 349 217, 728				
158, 397	44, 883	70, 762	10,030	************			
1, 824, 032	2, 375, 840	2, 888, 136	2, 114, 079				
118, 974	100, 240 -No. 85-	, ,	751, 316				

## STRAITS SETTLEMENTS—Continued.

# Quantities and value of imports,

Articles.	1873.	1874.	1875.	1876.	1877.
PENANG—continued.					
Grain, rice { pour	ds 55, 044, 416 rs 885, 675		71, 929, 312 1, 182, 365	77, 577, 648 1, 396, 173	45, 607, 856 714, 648
Gunnies dolla dolla	ber		2, 102, 000	315, 850 88, 375	552, 610 72, 812
	ds 1,027,488				746, 704 70, 206
Ironware, hardware, and cutlery do Japanware		200,200		48, 715 590	90, 324 28, 291
Dil: Kerosene and paraffine dolls	1 945 150	1, 306, 286	1, 405, 208	1, 173, 429	
Perman · Spour	ds 17, 900, 484	16, 794, 400	26, 771, 360	12, 323, 904	1, 238, 421 22, 538, 544
Provisionsdolla	rs	1, 590, 908	2, 159, 877	725, 019 827, 729	1, 230, 470 851, 940
	rs 35, 630		443, 504		90, <b>662</b> 368, 209
im ····· { dolls	6, 009 2, 880, 919	8, 109, 029	8, 054, 803	9, 604 2, 945, 941	10, <b>499</b> 2, 913, 530
	ds 8, 685, 920 rs 1, 160, 867		4, 696, 384 609, 042	8, 785, 936 975, 491	7, 238, 776 1, 724, 398
Wine	78			48, 412 92, 941	
Woolen goodsdolls All other articlesdolls	rs	4, 177, 892	3, 759, 266	26, 625 8, 738, 361	
Total merchandisedolla Bullion and speciedolla	12, 484, 543 rs 2, 089, 471		14, 387, 827 1, 912, 864		14, 905, 409 2, 751, 509
Total importsdolla		-	<del> </del>	15, 963, 873	17, 656, 918
MALACCA.					<del></del>
Grain:	da				58, 925, <b>624</b>
Zaddy } dolla	rs 103, 828	40, 806	41, 912 9, 708, 160	• • • • • • • • • • • • • • • • • • • •	126, 634 11, 225, 312
Adolla	408, 473		334, 413	• • • • • • • • • • • • • • • • • • • •	245, 370 366
Opium	rs. 275, 549	381, <b>v</b> E9	211,000		204, <b>960</b> 5, <b>2</b> 07, 77 <b>6</b>
г <del>ли</del>	rs 858, 041	919, 493	1, 016, 500	*********	687, <b>85</b> 0
Cobacco	rs 38, 431	22, 001	47, 753	••••••	487, 852 55, 259
All other articlesdolla		.] <del></del> -	281, 226		273, 002
Total merchandisedolla Bullion and speciedolla			1, 932, 804 1, 188, 060	•••••	1, 593, 075 187, 321
Total imports, Malaccadoll Total imports, Penangdoll		3, 207, 451 17, 023, 461	8, 120, 864 16, 250, 691	2, 454, 238 15, 861, 873	1, 780, 896 57, 656, 918
Total imports, Singapore.doll		46, 887, 070	43, 766, 201	15, 86 i, 873 45, 066, 470	57, 656, 918 49, 327, 517
Total Straits Settlements.doll	ars 64, 794, 635	67, 117, 982	63, 137, 756	63, 384, 581	68, 764, 831

### STRAITS SETTLEMENTS-Continued.

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
						:	
39, 232, 752	110, 945, 072	94, 972, 528	183, 783, 712				
2, 019, 283	2, 304, 196	2, 106, 127					
524, 390	436, 875	104, 470	<b>876, 950</b>				
70, 096	55, 867	49, 204	54, 205	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • •
1, 039, 136	488 656	771, 904	635, 876	•••••		•••••	
87, 550	40, 059	46, 983	62, 867	•••••			
116, 500	178, 691	156, 239	186, 021	••••••	• • • • • • • • • • • • • • • • • • • •	•••••	••••••
75, 180	67, 102	45, 826	57, <b>593</b>	•••••			• • • • • • • • • • • • • • • • • • • •
1 674 740	154, 020	88, 465	118, 821 1, <b>9</b> 89, <b>3</b> 29	•••••			
1, 274, 748	1, 202, 505 17, 266, 256	1, 379, 784 12, 945, 632					
21, 807, 856 1, 066, 683	992, 568	994, 606	940, 667		•••••		• • • • • • • • • • • • • • • • • • • •
280, 840	<b>862, 382</b>	290, 467	278, 840				
89, 759	86, 566	142, 378	168, 290				
373, 809	582, 827	557, 818	760, 867				
8, 138	8, 309	9, 632	8, 267				
2, 205, 938	2, 579, 473	3, 520, 259	3, 562, 882				
5, 650, 736	6, 691, 776	2, 573, 088	2, 681, 952				
1, 761, 702	1, 856, 793	590, 3 <b>6</b> 8	542, 108				
31, 149	37, 102	28, 787	24, 256				
<b>69</b> , 843	75, 412	63, 671	61,414				
<b>69,</b> 658	84, 784	29, 186	48, 893				
4, 186, 067	4, 494, 195	4, 551, 518	4, 482, 632				
15, 688, 295	16, 890, 046	16, 652, 718	17, 630, 685				
5, 274, 846	8, 928, 152	8, 070, 814	2, 865, 051	•••••			
20, 862, 641	20, 818, 198	19, 724, 522	20, 495, 738				
	`			ļ			1
6, 510, 672	18, 184, 648	14, 989, 296	6, 910, 096				
51, 085	135, 892	111, 133	48, 039				
28, 898, 448	4, 016, 496	22, 582, 000	28, 292, 096			1	
832, 299	390, 071	475, 553	603, 224				
362	392	326	299				
197, 200	196,000	<b>179, 3</b> 00	185, 575				
6, 367, 648	6, 311, 984	6, 984, 692	7, 758, 240		l		
780, 614	1, 140, 943	1, 164, 855	1, 512, 184				
505, 456			232, 784			1	
58, 342	47, 508	55, 207	42, 995		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
276, 535	235, 674	228, 739	363, 533				
2, 196, 075	2, 146, 088	2, 214, 789	2, 755, 550				
597, 565	572, 255	1, 103, 059	908, 680				.
2, 793, 639	2, 718, 843	3, 317, 848	3, 664, 230				
20, 862, 641	20, 818, 198	19, 724, 522	20, 495, 736			-1.00.00.00.00	
47, 259, 337	56, 278, 292	60, 675, 733	70, 699, 682		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,	
	·\		·	-,			-
70 915, 617	79, 814, 823	83, 718, 103					

## STRAITS SETTIBUTION Continued.

# Quantities and value of exports,

Articles.		1873.	1874.	1875.	1876.	1877.
SINGAPORE.						
Apparel millinery, and hear	ery.dolls	,		••••••	308, 419	504, 941
Baga, gunnies Coffee	{ pounds	4, 058, 992	8, 889, 680	<b>5, 895,</b> 008	7, 279, 885	813,007 6,988,852
	dollars	514, 161	478, 485	859, 798	925, 421	1, 038, 135
Copra	{ dollars					
Cotten goods	{ dollars	4, 586, 522	6, 246, 591	4, 639, 979	2, 147, 879 4, 578, 805	2, 845, 785 4, 039, 817
Cotton sarongs	dollars ponnds	1, 005, 536	2, 019, 808	1, 210, 720	77, 492 1, 542, 852	127, 599 1, 753, 472
Cotton twist	dollars	458, 813 18, 560, 762	520, 980 10, 586, 512	553, 878 9, 288, 944	606, 639	645, 968
Fish, dry or salted	dollars	527, 388	551, 196	590, 385	14, 087, 920 731, <b>69</b> 8	13, 278, 986 954, 554
Gambier	{ pounds } dollars	69, 856, 976 8, 214, 448	69, 876, 224 , 2, 961, 587	78, 990, 240 8, 884, 146	88, 618, 880 8, 373, 789	101, 937, 808 8, 419, 876
Grain, rice	{ pounds } dollars	148, 216, 640 2, 254, 298		147, 548, 688 2, 357, 031	165, 896, 640 2, 869, 380	101, 016, 040 2, 073, 249
Gums, dyes, and resins	} pounda		••••••	2,007,001	2,000,000	
Gutta percha	<pre></pre>	8, 775, 744	2, 825, 200	1, 844, 416	1, 972, 574	3, 554, 544
<b>-</b>	¿ dollars	994, 600 4, 518, 976	863, 555 5, 188, 736	377, 400 4, 324, 098	439, 173 5, 447, 456	1, 062, 772 8, 801, 440
Hides	dollars	411, 756	436, 569	428, 798	504, 698	783, 140
Nutmegs	`{ dollars	•••••			•••••	••••••
Oil, kerosene and paraffine	{ cases } dollars					
Opium	dollars   pounds	8, 627, 771 26, 298, 048	4, 055, 434 24, 059, 728	4, 379, 692 83, 271, 058	4, 620, 530 27, 182, 288	4, 118, 389
Pepper	'{ dollar	8, 258, 623	2, 845, 726	2, 828, 481	1, 996, 088	87, 241, 792 8, 585, 764
Precious stones Provisions	dollars dollars					• • • • • • • • • • • • • • • • • • • •
Rattans	{ tona } dollars	10, 026 627, 316	10, 718 <b>699, 83</b> 7	9, 677 548, <b>607</b>	10, 768 <b>645, 699</b>	12, 105 <b>785, 402</b>
Rubber	Spounda				•••••	
Sago	{ dollars } pounds	41, 118, 784	83, 812, 800	40, 889, 152	36, 657, 040	49, 444, 640
_	{ dollars { pounds	896, 918 856, 272	821, 018 247, 488	894, 132 202, 272	874, 728 268, 688	1, 211, 502 285, 984
Silk, raw	{ dollars	928, 320	590, 619	512, 720	448, 944 15, 427	689, 835 7, 705
Silk piece goods	dollars	237, 892	249, 457	241, 018	163, 480	112, 825
Sagar	pounds dollars				4, 394, 844 183, 940	8, 205, 124 148, 307
Tapioca	opounds				8, 261, 456 274, 850	12, 167, 008 481, 361
Tin	} pounds	8, 935, 808	10, 164, 784	13, 186, 880	9, 054, 740	11, 394, 880
Tobacco and cigars	dollarsdollars	2, 878, 547	1, 874, 615	2, 030, 562	1, 460, 929 596, 328	1, 739, 964 564, 803
All other articles	dollars	9, 393, 570	9, 364, 834	9, 312, 673	7, 755, 893	7, 979, 585
Total merchandise Bullion and specie	dollars	34, 305, 942 7, 446, 202	33, 715, 957 7, 793, 041	84, 438, 800 7, 180, 719	33, 660, 875	85, 208, 365
_					6, 953, 908	6, 220, 042
Total exports	dollars	41, 752, 145	41, 508, 998	41, 619, 519	40, 614, 783	41, 428, 407
PENARG.	5 number	1, 112	10, 224	11, 728	19, 040	16, 049
Animals, cattle	dollars	28, 042	209, 259	280, 049	468, 131	398, 541
Areca nuts	abludo { aridob {	11, 055, 296 244, 345	21, 266, 896 443, 075	18, 604, 880 303, 561	13, 457, 696 341, 480	14, 800, 048 87£, 201
Cotton goods	pieces dollars	1, 003, 593	1, 782, 014	1, 566, 342	989, 572 1, 161, 854	822, 570 889, 809
Fish, dry or salted	pounds	4, 403, 280 127, 806	6, 481, 664 200, 402	5, 505, 616 206, 558	5, 916, 960	3, 573, 248
Grain, rice	§ pounds.	52, 190, 880	45, 095, 456	<b>52, 899,</b> 088	221, 300 68, 480, 272	180, 895 53, 821, 376
Gums, dyes, and resins	dollars	897, 847	884, 533	966, 215	1, 289, 754	1, 203, 772
Gutta percha	{ pounds dollars					
Hides	Š pounds	1, 252, 956	1, 443, 112	1, 208, 480	1, 003, 408	988, 400
	` { dollars { pounds	120, 269 870, 720	154, 891 854, 868	127, 519 883, 936	84, 987 811, 1 <b>36</b>	95, 956 288, 064
Nutmegs	dollars	182, 849	187, 406	184, 096	155, 267	130, 198

### STRAITS SETTLEBURTS—CARGO.

## moduling bullion and specie.

1878.	1879.	1880.	IME	1882	1883.	1864.	1885.
207, 860	299, 259	278, 575					
298, 970 4, 253, 328	588, <b>820</b> 8, 157, 296	368, 713 6, 567, 066	7,		*************	**********	*********
551, 991	1, 169, 760	825, 827	"   j.				
	2, 111, 088	14, 775, 876	17, 6	**********		**********	*****
2, 075, 292	81, 530 2, 623, 489	495, 957 2, 900, 553	8 7				
4, 200, 971	5, 046, 182	6, 587, 718	8, 7			*********	*********
148, 014	123, 811	126, 739				***********	•••••
1, 880, 432 583, 107	807, 744 561, 213	1, 111, 804 716, 028	1				******
12, 401, 616	12, 744, 368	16, 983, 568	22, 3				******
805, 525	929, 308	1, 195, 885	1. 0				
87, 744, 948 3, 096, 553	90, 504, 913 . 8, 270, 244	104, 288, 760 8, 527, 988	88, 7			**********	*****
115, 705, 856	194, 655, 776	221, 077, 824	200,				
2, 788, 109	4, 201, 542	4, 608, 138	6, 8				
•••••	8, 717, 184 542, 305	9, 054, 652 647, 064	D, 5	************			**********
2, 142, 892	7, 831, 856	5, 171, 284	<b>6</b> , j				
1, 006, 859	1, 956, 921	1, 574, 945	7 3			***********	
8, 562, 960 810, 308	8, 462, 954 660, 481	8, 000, 748 880, 968					
020, 200	658, 968	890, 144	1	4888884			***********
	244, 967	194, 228	5			• • • • • • • • • • • • • • • • • • • •	
************	127, 642 284, 894	142, 846 285, 982	ž k			**********	
11, 826, 409	3, 796, 157	4, 724, 166	4, 5	***********			
30, 874, 358	29, 732, 932	25, 019, 456	80, £			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2, 063, 957	2, 167, 790 885, 489	2, 151, 973 352, 274	2, 5	******	**********	**********	
	703, 889	655, 055	í				
14, 597	16, 018	18, 928					
934, 538	1, 188, 856 492, 688	2, <b>604</b> , 173 848, 400	1, 5	***************************************		******	
	178, 248	104, 698					***********
51, 077, 870	44, 282, 560	43, 834, 144	49, 9				***********
1, 484, 960 270, 816	1, 963, 870 344, 786	1, 278, 531	1, 0	***********		**********	*********
\$82, 108	890, 864	801, 913	آجد بدر				<del></del>   
11, 415	8, 250	14,019	21, 625				
118, 802 3, 186, 832	182, 022 7, 804, 048	206, 789 6, 032, 553	199, 101 6, 861, 456	**********			
238, 817	448, 664	362, 655	434, 472				******
12, 885, 968	16, 160, 816	27, 053, 264	36, 512, 560	**********			
539, 543   11, 983, 792	684, 731   12, 020, 848	1, 085, 584 15, 810, 704	1, 196, 835				
1, 477, 418	1, 962, 298	8, 210, 755	8, 920, 749		**********		
586, 423	600, 275	715, 838 7, 347, 064	697, 878 8, 822, 589				
6, 705, 490	6, 711, 163	7, 567, 006	B, 524, 909		**********	**********	**********
39, 311, 627	41, 218, 863	46, 174, 163	53, 637, 877	***			
6, 710, 291	8, 031, 375	8, 404, 819	4, 363, 311	***********	******		
40, 031, 921	49, 250, 288	54, 578, 981	58, 001, 188			***********	**********
				**********			
21, 414	17, 964	19, 102	12,008				
585, 076	365, 47L	352, 991	301, 483		******		**********
12, 500, 256	14, 895, 760	16, 018, 576	15, 402, 240				
522, 504	546, 909 633, 699	423, 987 821, 050	823, 806 575, 159		***********		
629, 290 820, 740	719, 687	777, 507	666, 377	***********	**********		**********
7, 584, 944	7, 065, 652	5, 941, 600	7, 141, 800		••••		***********
288, 812 60, 969, 776	290, 589 92, 883, 056	216, 188 93, 585, 568	270, 145 77, 820, 786				
1, 645, 174	2, 611, 284	1, 126, 693	1, 414, 429		**********	******	,,,,,,,,,,,,,
	74, 195	94, 778	100				****
************	284, 528 59, 463	875, 548 122, 609	88, 704 25, 137	**-***	*******		•••••
		551, 712	613, 104	*********	•••••	*********	
1, 202, 592	904, 006 1	001, (14)	010-10-	******* * ******	4 6 6 6 6 6 6 6 6 6 6 7	******* **	******
3, 202, 592 115, 875 414, 786	903, 006 50, 050 304, 418	46, 618 279, 878	76, 570 448, 673	***********		********	******

### STRAITS SETTLEMENTS—Continued.

## Quantities and values of exports,

<b>▲rticles.</b>	1873.	1874.	1875.	1876.	1877.
PENANG—continued.					
Oū:	! !		] [		
Cocoanut	1, 232, 560 102, 248	1, 414, 836 109, 532	1, 677, 664 102, 463	• <b>2,</b> 01 <b>6, 00</b> 0 1 <b>4</b> 3, 785	2, 005, 472 138, 510
Kerosene and paraffine . } gallons		•••••			
Opiumdollars			1, 120, 554	938, 645	1, 000, 223
Pepper	18, 134, 592 1, 900, 032	14, 318, 192 1, 644, 167	25, 079, 712 2, 003, 431	14, 014, 672 897, 685	22, 850, 688 1, 348, 544
Provisionsdollars	1, 900, 002		2,000, 201	273, 594	351, 690
Rubber (pounds		••••••		• • • • • • • • • • • • • • • • • • • •	
dollars ( pieces				<b>54, 46</b> l	23, 027
dollars	15, 567	58, 164	142, 950	164, 671	108, 392
Sugar { pounds } dollars	<b>23</b> , 727, 212 730, 157	<b>29, 762, 6</b> 72 <b>908, 775</b>	25, 047, 680 094, 768	25, 161, 024 824, 860	23, 809, 520 880, 133
Tapioca	100, 101		002, 100	022, 000	000, 100
- ( domais	15 450 004	20 000 144	10 266 704	17 04E 000	10 010 400
Tin { pounds } dollars	75, 452, 304 8, 397, 930	20, 282, 144 8, 964, 741	19, 366, 704 3, 386, 521	17, 345, 328 2, 786, 391	18, 912, 432 2, 766, 011
Tobacca } pounds	1, 752, 240	2, 220, 736	2, 775, 024	1, 622, 544	6, 692, 012
All other articlesdollars	537, 640 2, 763, 958	730, 791 <b>2, 76</b> 8, 886	865, 780 3, 019, 154	414, 513 3, 322, 084	8, 545, 000 2, <b>904</b> , 751
All older articles	2, 700, 800	2, 100, 000	0, 010, 103	0, 00:, 001	2, 503, 101
Total merchandise dollars Bullion and specie dollars	13, 054, 221 4, 189, 540	15, 123, 527 3, 859, 646	14, 969, 964 4, 160, 953	13, 519, 001 3, 068, 520	16, 378, 126 4, 448, 844
Total exportsdollars	17, 243, 761	18, 983, 178	19, 130, 917	16, 587, 521	20, 821, 970
Malacca.					
Grain, rice	8, 153, 488	6, 870, 528	4, 395, 328	•••••	9, 413, 936
( (loliars	154, 236	138, 994	<b>236, 440</b>	•••••	1 <b>99, 888</b> 353
Opium { dollars		231, 280	165, 699		211, 800
Tapioca	5, 793, 760 225, 008	15, 969, 073	7, 838, 656		4, 993, 408
- Cuntate	*6, 238, 400	175, 786	21, 620 4, 882, 080		173, 180 2, 803, 240
1 dollars	*159, 440	1, 254, 015	973, 650	••••	479, 369
All other articles dollars	193, 811	138, 368	295, 083		210, 213
Total merchandisedollars Speciedollars	939, 817 376, 920	1, 938, 443 212, 611	1, 692, 492 50, 400		1, 273, 950 <b>890</b> , 711
Total exports of Mulacca dollars.	1, 316, 737	2, 151, 054	1, 742, 892	2, 013, 197	1, 664, 661
Total exports of Penangdollars.	17, 243, 761	18, 983, 173	19, 130, 917	16, 587, 521	20, 821, 970
Total exports of Singapore.dollars.	41, 752, 145	41, 508, 998	41, 619, 519	40, 614, 783	41, 428, 407
Total exports of Straits Settle- mentsdollars	60, 312, 643	62, 643, 225	62, 498, 328	59, 215, 501	63, 915, 088

<sup>\*</sup>As given in official figures.

# STRAITS SETTLEMENTS—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1884.
1, 161, 828 96, 949	1, 006, 992 56, 741	672, 000 48, 865	658, 282 41, 058				
••••••	361, 214	214, 238	172, 934				
	91, 617	29, 630	45, 512	] · • • • • • • • • • • • • • • • • •	•		
938, 645	888, 675	1, 469, 241	1, 715, 472			•••••	
21, 008, 624 1, 850, 826	16, 220, 736 691, 712	13, 409, 536 1, 018, 817	13, 500, 592 1, 230, 924		•••••		*********
592, 596	282, 527	253, 096	219, 440				
000,000	65, 632	92, 288	146, 043				
	25, 487	51, 805	73, <b>696</b>	•••••	•••••		
40, 752	44, 591	68, 769	47, 369				
128, 977	177, 044	281, 867	236, 548				
84, 783, 120 1, 279, 606	<b>86, 863, 376</b> <b>1, 339, 024</b>	1, 730, 752	25, 827, 200 920, 813		•••••		•••••••
1, 219, 000	2, 719, 696	3, 115, 168	3, 784, 48 <b>9</b>				
	109, 747	144, 841	131, 215				
22, 093, 568	18, 781, 404	18, 019, 568	16, 279, 872	•••••			
2, 749, 281	8, 096, 091	8, 796, 538	8, 611, 829				
5, 923, 904	8, 186, 416	4, 491, 152	1, 475, 488	•••••			
2, 846, 814	8, 004, 707	1,414,021	486, 144	• • • • • • • • • • • • • • • • • • • •			
4, 722, 022	3, 143, 339	2, 399, 306	<b>1, 663,</b> 138	• • • • • • • • • • • • • • • • • • • •			
17, 385, 817	17, 814, 644	16, 489, 987	13, 661, 750				
5, 623, 322	4, 790, 265	3, 348, 132	2, 343, 503				
23, 009, 139	22, 604, 909	19, 838, 119	16, 005, 343				
			هسته حسب			<del></del>	
1							
10, 181, 186	8, 219, 792	8, 912, 400	9, 801, 152				
247, 849	197, 208	196, 687	189, 280				••••••
290	824	273	239				
142, 400	162, 000	150, 150	146, 085	•••••		• • • • • • • • • • • • • • • • • • • •	•••••
9, 1 <b>69</b> , 532 38 <b>4, 64</b> 8	12, 858, 808 521, 852	23, 821, 760 844, 238	<b>29, 286, 656</b> <b>925, 748</b>			• • • • • • • • • • • • • • • • • • • •	
5, 641, 216	7, 515, 984	7, 921, 424	8, 166, 480				
800, 193	1, 053, 839	1, 340, 650	1, 798, 909				
<b>3</b> 35, 753	848, 075	366, 566	272, 833				
							<del></del>
1, 914, 843	2, 282, 974	2, 898, 300	3, 332, 855				
702, 200	487, 151	735, 740	586, 57 <b>6</b>				
2, 617, 043	2, 770, 125	8, 634, 040	8, 919, 431				
23, 009, 139	22, 604, 909	19, 838, 119	16, 005, 343				
40, 021, 921	49, 250, 238	54, 578, 981	58, 001, 188				
	<b>84 505 555</b>	#0 AP4 #46	<b>87</b> 005 000				
65, 648, 103	74, 625, 272	78, 051, 140	77, 925, 962			1	

CHINA.

Value of imports into China | Exclusive of the trade carried on in native

	-				
	1878.	1874.	1875.	1876.	1877.
Great Britain and dependencies:	Dollars.	Dollare.	Dollars.	Dollare.	Dollars.
The United Kingdom	31, 450, 320	30, 504, 480	81, 488, 170	29, 848, 390	28, 791, 960
Hong-Kong	87, 983, 120	35, 973, 840	41, 012, 250	39, 141, 960	39, 746, 890
India	25, 397, 680	27, 849, 440	22, 133, 950	23, 758, 020	28, 415, 550
Straits Settlements	864, 880	966, 720	1, 048, 000	1, 244, 100	1, 480, 520
Australesia	818, 760	905, 920	829, 930	747, 890	767, 520
Canada :	234, 080	249, 280	89, 400	78, 650	116, 640
Total	96, 698, 840	96, 449, 680	96, 596, 700	94, 819, 010	99, 818, 270
United States	<b>37</b> 0, <b>88</b> 0	404, 820	1, 513, 840	1, 058, 770	1, 636, 720
Continent of Europe	1, 006, 240	785, 840	1, 141, 840	1, 178, 820	1, 209, 840
Russia in Asia (Manchuria)	41, 640	115, 520	150, 490	141, 570	164, 160
Japan	4, 874, 640	3, 669, 280	8, 704, 140	4, 484, 480	5, 052, 960
Philippine Islands, Java, Siam, and					
Cochin China	1, 667, 440	741, 760	1, 114, 520	1, 651, 650	1, 977, 120
All other countries	<b>260, 48</b> 0	39, 921	70, 030	187, 230	<b>139</b> , 810
Total imports	105, 120, 160	102, 206, 820	104, 296, 060	103, 519, 030	109, 560, 880

Total value of experts of domestic

Countries.	1873.	1874.	1875.	1876.	1877.
Great Britain and dependencies:	Dollars.	Dollare.	Dollars.	Dollars.	Dollars.
United Kingdom	56, 662, 560	51, 097, 840	43, 455, 850	50, 433, 240	40, 008, 900
Hong-Kong	11, 898, 560	17, 182, 080	18, 993, 030	20, 702, 110	21, 968, 640
India	3, 505, 920	1, 360, 400	359, 090	288, 810	832, 320
Straits Settlements	679, 440	921, 120	1, 181, 570	847, 990	1, 368, 000
Australasia	3, 184, 440	3, 372, 880	3, 316, 740	2, 794, 220	2, 810, 880
Cape Colony		91, 200	138, 570	104, 390	165, 600
Canada	<b>27, 86</b> 0	118, 560	65, 560	10, 010	•••••••
Total	76, 018, 280	74, 144, 080	67, 510,410	75, 160, 800	67, 154, 400
United States	11, 436, 480	10, 305, 600	11, 434, 650	10, 367, 500	11, 449, 490
Continent of Europe	11, 418, 240	11, 111, 200	14, 822, 520	21, 691, 670	8, 851, <b>6</b> 80
Russia in Asia	3, 123, 000	2, 273, 920	4, 610, 060	4, 744, 740	5, 597, 280
Japan	1, 738, 880	2, 672, 100	2, 909, 970	2, 435, 810	2, 692, 500
Philippine Islands, Java, Siam, and Cochin China.	1, 295, 040	1, 304, 160	1, 873, 180	1, 118, 970	1, 378, 760
All other countries	585, 000	89, 740	19, 580	82, 940	1, 690
Total exports	105, 565, 520	101, 900, 800	102, 690, 370	115, 616, 930	97, 120, 800

CHINA.

from the principal countries.

vessels, for which no returns could be obtained.]

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.	Dollars.	Dollars.
21, 680, 400	27, 449, 550	80, 196, 780	82, 283, 280	25, 883, 240	22, 855, 500	22, 706, 800	30, 709, 760
<b>34, 795, 250</b>	40, 015, 350	41, 749, 140	42, 418, 400	40, 106, 940	89, 272, 850	41, 231, 800	45, 148, 040
30, 561, 650	33, 813, 950	28, 574, 280	36, 470, 840	25, 204, 820	28, 157, 790	21, 894, 260	20, 670, 720
1, 194, 800	1, 125, 900	1, 190, 940	1, 546, 320	2, 159, 700	1, 980, 500	1, 969, 600	<b>2, 26</b> 8, 000
510, 400	480, 600	806, 360	579, 360	731, 400	569, 700	158, 120	327, 680
411, 800	139, 050	140, 760	308, 000	802, 220	225, 450	89, 780	65, 210
94, 154, 300	102, 524, 400	102, 157, 260	118, 604, 200	94, 387, 820	88, 011, 790	88, 050, 060	99, 124, 410
8, 266, 850	8, 430, 350	1, 662, 900	4, 488, 000	4, 522, 260	3, 655, 800	8, 240, 120	4, 243, 200
1, 197, 700	2, 362, 500	3, 169, 860	8, 860, 280	8, 441, 720	8, 219, 750	2, 361, 080	8, 225, 600
216, 050	874, 295	239, 138	153, 680	209, 760	209, 250	345, 320	247, 040
5, 807, 250	4, 612, 950	4, 881, 850	5, 140, 520	6, 129, 960	5, 946, 800	4, 889, 040	6, 787, 920
1, 273, 100	1, 184, 000	589, 260	918, 000	1, 0 <b>2</b> 8, 960	1, 018, 850	676, 700	817, 920
207, 350	86, 105	13, 432	9, 560	40	<b>30,</b> 160	29, 980	100, 670
106, 122, 600	114, 474, 600	112, 663, 200	127, 674, 240	109, 715, 520	101, 187, 900	99, 602, 200	114, 556, 160

## produce to principal countries.

vessels, for which no returns could be obtained.]

1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
Dollars.	Dollare.	Dollars.	Dollars.	Dollare.	Dollars.	Dollars.	Dollare.
40, 034, 500	<b>35, 268, 750</b>	38, 397, 120	30, 914, 160	80, 786, 420	33, 169, 500	26, 083, 100	28, 149, 760
21, 719, 950	22, 144, 050	22, 920, 420	<b>24,</b> 018, <b>96</b> 0	22, 752, 060	25, 450, 200	28, 101, 600	20, 313, <b>6</b> 00
542, <b>300</b>	742, 500	1, 526, 280	549, 440	658, 260	750, 600	852, 240	758, 920
1, 561, 650	1, 186, 650	1, 845, 500	1, 598, 000	1, 418, 640	1, 258, 200	1, 145, 700	1, 276, 720
2, 552, 000	2, 894, 900	2, 619, 240	2, 921, 280	8, 067, 740	2, 177, 550	2, 232, 440	2, 406, 400
321, 900	206, 550	81, 420	179, 520	153, 180	206, 550	196, 980	238, 080
	, . <b></b>	86, 940	23, 120	80, 040	108, 000	809, 540	2, 500
66, 782, 300	61, 943, 400	66, 976, 920	60, 204, 480	58, 916, 840	68, 120, 600	58, 921, 600	<b>58, 143,</b> 040
9, 535, 200	12, 105, 450	12, 567, 660	13, 901, 920	11, 619, 600	9, 925, 200	11, 095, 200	10, 621, 440
12, 274, 250	13, 720, 050	17, 829, 000	14, 936, 960	13, 397, 040	12, 922, 200	15, 170, 140	10, 561, 280
4, 795, 150	5, 653, 800	5, 927, 100	4, 791, 280	5, 319, 900	5, 468, 850	5, <b>6</b> 78, <b>92</b> 0	4, 999, 680
2, 440, 350	3, (14, 550	<b>8, 04</b> 0, 140	2, 419, 040	2, 438, 460	1, 904, 850	2, 406, 640	1, 908, 480
1, 568, 900	1, 046, 250	924, 600	806, 480	1, 170, 240	1, 244, 700	1, 219, 400	1, 356, 080
<b>33, 250</b>	95, 850	218, 780	115, 920	56, 880	180, 900	486, 420	617, 680
97, 899, 400	97, 579, 350	107, 479, 920	97, 176, 080	92, 918, 460	94, 767, 809	89, 978. 820	83, 207, 680

### CHINA-Continued.

Quantities and value of principal
[The trade of China here given represents that transacted in foreign bottoms,

Articles.	1873.	1874.	1875.	1876.	1877.
Coal { tons { dollars	126, 624 1, 375, 600	127, 920 1, 029, 040	157, 600 1, 443, 810	140, 821 1, 042, 470	185, 076 1, 535, 040
Cotton	27, 002, 645 3, 263, 440	1, 583, 137 150, 480	22, 601, 241 2, 226, 060	29, 022, 333 3, 218, 930	20, 680, 082 2, 106, 720
Cotton manufactures:		ا المستحد المستحد الترجيد			
Gray shirting { pieces dollars	3, 756, 606 11, 455, 720	5, 399, 693 13, 711, 920	4, 884, 948 10, 574, 520	5, 196, 033 11, 182, 450	4, 494, 523 9, 269, 280
Other shirtings { pieces dollars	654, 103 2, 255, 680	895, 839 2, 787, 260	1, 076, 292 8, 318, 230	941, 625 2, 612, 610	1, 007, <b>694</b> 2, 685, 600
Yarn { pounds dollars	9, 005, 572 5, <b>300</b> , 240	9, 187, 337 2, <b>99</b> 2, <b>8</b> 30	12, 202, 167 4, 093, 030	15, 073, 218 4, 074, 070	15, 449, 546 4, 091, 040
All otherdollars	13, 724, 080	8, 279, 440	12, 108, 800	11, 304, 350	11, 026, 080
Total cotton, manufactures, dol-	32, 735, 720	27, 771, 500	30, 094, 580	29, 173, 480	27, 072, 000
Fish, salted and fresh { ponnds dollars		4, 739, 517 352, 150	5, 565, 472 485, 740	9, 248, 747 680, 650	8, 473, 379 572, 640
Ginseng { pounds dollars	279, 517 1, 825, 440	364, 856 950, 000	892, 623 1, 278, 420	412, 515 1, 401, 400	399, 165 1, 445, 7 <b>6</b> 0
Matches { gross boxes dollars		213, 726 269, 040	826, 803 277, 140	463, 555 373, 230	549, 117 416, 160
Copper and manufact- { pounds dollars	1, 715, 724 399, 860	1, <b>49</b> 3, 598 299, 820	1, 674, 496 817, 370	2, 814, 047 320, 320	1, 641, <b>65</b> 0 527, <b>04</b> 0
Iron and manufactures of { pounds dollars	27, 468, 853 1, 001, 680	32, 942, 060 1, 057, 920	59, 038, 033 1, 464, 670	43, 229, 788 1, 071, 070	61, 755, 098 1, 304, 640
Lead and quicksilver { pounds		20, 919, 667 1, 555, 060	23, 667, 177 2, 191, 790	25, 524, 266 1, 847, 560	31, 259, 599 2, 036, 160
Tin and tin plates { pounds dollars		9, 025, 935 2, 263, 280	10, 515, 662 1, 807, 370	9, 662, 863 1, 492, 920	13, 812, 711 2, 147, 040
Total metals		64, 381, 260 5, 166, 580	94, 890, 368 5, 781, 200	81, 230, 964 4, 731, 870	108, 469, 058 6, 014, 880
Oilsdollars			381, 440	296, 010	148, 320
Opium: { pounds . dollars	5, 433, 450 29, 282, 800	5, 834, 751 28, 569, 520	5, 165, 833 24, 103, 600	5, 861, 852 25, 777, 180	5, 567, 618 27, 563, 040
Patna	1, 990, 352 8, 969, 520	2, 325, 703 9, 846, 560	2, 058, 429 9, 161, 040	2, 130, 660 8, 960, 120	2, 034, 140 8, 841, 200
Benares { pounds . } dollars	1, 219, 523 5, 491, 860	1, 056, 786 4, 532, 640	1, 003, 920 4, 063, 920	1, 146, 194 4, 593, 160	1, 431, 737 5, 879, 120
Other { pounds . dollars	. 74, 493 831, 360	106, 666 479, 680	175, 152 691, 360	174, 084 739, 810	322, 40 <b>3</b> 1, 293, 920
Total opium	8, 717, 818 44, 075, 540	9, 323, 906 43, 428, 400	8, 403, 334 88, 019, 920	9, 312, 690 40, 069, 770	9, 355, 898 43, 577, 280
Seaweed and agar-agar. { pounds . dollars	40, 808, 146 972, 800	43, 767, 041 874, 000	85, 689, 228 850, 770	89, 471, 900 870, 870	33, 568, 369 758, 120
Wool manufactures { pounds . dollars	9, 037, 920	6, 864, 020	6, 795, 890	6, 090, 370	9, 656, 940
All other articlesdollars	. 8, 493, 520	10, 983, 510	13, 391, 528	12, 537, 020	12, 158, 120
Total importsdollars	. 101, 289, 240	97, 838, 720	101, 026, 470	100, 486, 100	105, 456, 960

CHINA-Continued.

articles imported for home consumption.

no statistics being obtainable concerning that carried on in native vessels—junks.]

		,	<del> </del>	<del>,</del>			
1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
224, 120	193, 339	235, 863	277, 998	278, 409	206, 057	289, 716	832, 125
1, 654, 450	1, 084, 050	1, 335, 840	1, 770, 240	1, 683, 600	1, 638, 920	2, 000, 620	2, 220, 800
14, 154, 471	23, 423, 789	11, <b>679</b> , 181	18, 405, 378	23, 826, 818	28, 209, 854	24, 081, 918	17, 520, 587
1, 396, 800	2, 070, 900	1, 247, 520	2, 022, 820	1, 265, 460	2, 835, 000	2, 390, 560	1, 666, 440
2, 787, 639	5, <b>602</b> , 552	4, 658, 736	5, 830, 871	5, 270, 875	4, 417, 283	4, 311, 551	<b>6</b> , 12 <b>3</b> , 685
5, 538, 240	10, 990, 350	8, 888, 580	10, 681, 440	9, 679, 320	8, 048, 700	7, 668, 820	10, <b>378</b> , <b>2</b> 40
994, 165	1, 462, 168	1, 637, 169	2, 265, 724	1, 776, 000	1, <b>699</b> , 841	2, 031, 226	4, 158, 050
2, 701, 350	3, 542, 400	3, 968, 880	5, 125, 840	4, 253, 160	8, 855, <b>6</b> 00	4, 171, 420	5, 8 <b>22</b> , 240
14, 466, 060	18, 408, 048	20, 227, 453	23, 026, 847	24, 596, 887	30, 438, 668	33, 804, <b>69</b> 3	387, 8 <b>20</b>
3, 655, 450	4, 307, 850	5, 034, 240	5, 750, 080	6, 216, 900	7, 076, 700	7, 482, 560	10, 074, <b>8</b> 80
11, 808, 550	11, 669, 400	14, 375, 460	13, 866, 560	11, 186, 280	10, 782, 450	10, 346, 140	14, 336, 960
23, 203, 500	80, 510, 000	32, 267, 160	85, 428, 920	81, 385, 660	29, 768, 450	29, 068, 940	40, 112, 820
14, <b>912</b> , 484	8, 463, 366	8, 888, 697	18, 205, 019	10, 960, 850	14, 781, 725	11, 101, <b>998</b>	11, 5 <b>67, 200</b>
870, 000	540, 000	609, 960	727, 600	676, 200	1, 006, 750	750, 400	851, 200
471, 522	486, 598	482, 469	488, 908	631, 588	467, 250	402, 508	509, 067
1, 447, 100	1, 317, 600	623, 760	715, <b>96</b> 0	1, 058, 940	997, 640	810, 700	1, 002, 240
926, 969	• 1, 027, 010	1, 419, 540	1, 706, 480	1, 904, 629	1, 871, <b>62</b> 8	1, 198, 918	<b>2, 430, 683</b>
584, 850	560, 300	804, 540	1, 015, 962	1, 178, 140	812, 700	950, 780	1, 314, 560
2, 763, 100	2, 142, 008	2, 822, 598	8, 178, 952	2, 589, 837	8, 005, 085	8, 001, 383	6, 281, 200
801, 600	441, 450	342, 240	447, 740	510, 600	413, 100	495, 800	884, 490
72, 246, 062	108, 226, 181	114, 169, 784	99, 981, 626	99, 674, 304	10 <b>9</b> , 1 <b>39</b> , <b>058</b>	112, 618, 197	160, 884, 188
1, 876, 060	1, 864, 350	2, 115, 540	1, 758, 480	1, 771, 920	<b>2</b> , 003, 400	1, 987, 220	2, 557, 640
39, 761, 281	24, 146, 407	21, 489, 762	37, 789, 044	88, 997, 644	26, 409, 504	14, 896, 378	21, 990, 921
2, 074, 950	1, 302, 750	1, 121, 940	1, 678, 240	1, 516, 620	1, 081, 850	645, 880	880, 640
13, <b>006, 6</b> 38	9, 426, 056	8, <b>565</b> , <b>226</b>	15, 902, 915	9, 701, 846	10, <b>092</b> , <b>467</b> 2, 011, 500	9, 683, 156	11, <b>662</b> , 267
1, <b>9</b> 38, <b>6</b> 50	1, 354, 050	1, <b>451</b> , <b>760</b>	2, 044, 080	2, 002, 380		1, 646, 860	2, 099, 200
127, 777, 081	143, 940, 652	147, 047, 818	156, 802, 537	145, 918, 631	148, 646, 109	188, 466, 099	200, 318, 521
5, 691, 250	4, 962, 600	5, 031, 480	5, 928, 240	5, 901, 520	5, 509, 850	4, 775, 760	6, 421, 960
568, 409	692, 580	671, 820	673, 200	1, 330, 320	947, 700	1, 106, 840	2, 199, 120
4, 985, 024	5, 358, 556	4, 611, 132	4, 871, 282	8, 916, 223	4, 701, 608	5, 902, <b>266</b>	4, 488, 667
27, 986, 450	28, 048, 950	23, 969, 220	27, 640, 640	18, 064, 200	18, 256, 600	19, 744, 990	16, 861, 440
2, 472, 204	2, 823, 525	2, 203, 151	2, 402, 466	2, 058, 096	1, 712, 130	1, 821, 741	1, 897, 970
10, 076, 050	10, 658, 250	9, 065, 220	9, 993, 280	7, 588, 620	6, 835, 050	5, 968, 464	6, 768, 520
1, 651, 796	2, 173, 113	2, <b>309</b> , 150	2, 411, 949	2, 004, 770	1, 8 <b>62, 3</b> 25	1, 652, 062	1, 905, <b>0</b> 67
6, 388, 700	7, <b>6</b> 20, 750	8, 769, 900	9, 788, 960	7, 588, <b>62</b> 0	<b>6, 835, 0</b> 60	5, 968, 560	6, 607, 520
595, 010	731, 713	662, 298	871, 755	797, <b>9</b> 30	722, 502	582, 783	600, 667
2, 830 150	2, 997, 000	2, 841, 420	8, 753, <b>60</b> 0	8, 036, 000	2, 389, 500	2, 887, 880	2, 429, 440
9, 618, 044	11, 086, 907	9, 285, 731	10, 557, 452	8, 772, 019	8, 908, 560	9, 958, 802	8, 892, 371
46, 781, 350	49, 842, 950	44, 645, 760	51, 126, 480	36, 277, 440	84, 316, 200	84, 109, 800	<b>82</b> , 561, 920
44, 570, 711	59, 246, 633	58, 737, 864	51, 811, 751	53, 414, 151	45, 105, 896	40, 424, 150	57, 811, 838
1, 071, 550	1, 293, 300	1, 097, 100	1, 015, 920	1, 854, 720	1, 890, 500	1, 041, 180	1, 144, 820
7, 070, 200	6, 687, 900	8, 019, 180	7, 961, 440	6, 204, 480	2, 525, 520	4, 971, 140	6, 174, 720
12, 894, 860	11, 944, 300	13, 070, 720	18, 455, 708	18, 585, 220	17, 579, 070	17, 918, 020	17, 284, 400
102, 665, 800	111, 006, 450	109, 424, 840	126, 836, 960	107, 246, 700	99, 316, 800	100, 499, 740	112, 896, 000

## BRITISH AFRICA.

## Quantities and value of principal articles

			1		
Articles.	1873.	1874.	1875.	1876.	1877.
BAST COAST.					
Mouritius.	<b>.</b>				<u>.</u>
Coal	25, 705 199, 260	28, 514 204, 606	38, 475 260, 010		
Grain:	199, 200	202,000	200, 010	267, 786	127, 818
pounds			143, 461, 696		139, 442, 688
( hushala		1, 961, 982 836, 967	2, 156, 786 211, 838	2, 885, 288 216, 889	2, 111, 184 315, 484
w neat dollars	105, 948	300, 348	197, 316	208, 494	
Other, including flourdollars Cotton goods:		837, 378	569, 518	643, 950	•
Plain { yards } dollars	7, 079, 394 471, 420	7, 605, 688 492, 804	6, 985, 874 427, 680	<b>6, 945, 812</b> 885, 884	6, 890, 523 881, 996
Colored Syards	4, 320, 204	4, 881, 415	5, 714, 042	4, 484, 919	8, 834, 547
( domera	381, 024	428, 166	449, 120	<b>365, 958</b>	632, 286
Haberdashery, mercery, and millinery, dollars.	284, 310	250, 290	168, 156	157, 464	195, 172
Hardware and cutlerydollars	407, 268	382, 482	228, 420	192, 456	867, 416
Machinery and mill-workdollars	312, 012 20, 688	416, 016 44, 760		<b>36, 450</b>	138, 024
Manure, guano	<b>640, 062</b>	1, 350, 108	520, 020	16, 439 478, 224	39, 644 1, 117, 324
WA		485, 028	817, 358	<b>2</b> 32, <b>30</b> 8	397, 062
All other articlesdollars	4, 677, 269	4, 689, 941	<b>8, 545, 027</b>	8, 429, 279	4, 086, 716
Total merchandisedollars Speciedollars	10, 530, 167 1, 396, 764	11, 799, 149 759, 182	8, 919, 675 1, 747, 170	8, 783, 541 2, 817, 784	10, 640, 236 826, 686
Total importsdollars	11, 926, 931	12, 558, 281	10, 666, 845	11, 101, 275	11, 466, 922
SOUTH COAST.					
Natal					
Apparel and slopsdollars	381, 510	810, 554	532, 656	459, 270	403, 866
Ale and hear in bettler Sgallons	52, 779	63, 258	56, 806	64, 944	62, 829
( doiser a **		69, 498	57, 848	68, 040	68, <b>526</b>
Ale and beer, in wood gallons dollars		68, 292 80, 132	189, 724 58, 806	186, 612 59, 778	157, <b>385</b> 71, <b>928</b>
) pounds	91, 952	255, 548	956, 082	678, 032	998, 256
( dongre • •		47, 142 3, 415, 413	105, 726 8, 948, 773	108, 378	205, 578
Cotton manufactures { yards dollars	1 , , , , ,	415, 044		2, 323, 611 284, 310	2, 428, 660 276, 534
Cotton blocked and shorts   pairs	197, 678	146, 921	132, 679	113, 456	82, 597
( dotters		119, 526 22, 825	124, 416 26, 890	87, 480 28, 160	62, 208 88, 602
Flour		185, 166	161, 352	150, 660	
Haberdashery and millinerydollars	468, 018	492, 804	635, 688	359, 640	391, 716
Iron of all kinds, n. e. sdollars	112, 266	152, 118 403, 866	277, <b>99</b> 2 418, 446	200, 718 395, 604	185, 1 <b>66</b> 265, 356
Hardware, cutlery, &cdollars Leather manufacturesdollars	338, 256 198, 172	243, 486	339, 714	261, 468	
yards	272, 298	221, 831	297, 527	216, 089	119, 780
( A01100 2		44, 226	58, 806	43, 254	
Machinery and railway plant dollars Oilmen's storesdollars	169, 614 39, 366	122, 958 86, <b>994</b>	156, 006 87, 966	282, 366 61, 722	922, 914 95, 742
Pice Spounds	2, 618, 224	3, 610, 768	4, 110, 848	4, 272, 688	5, 674, 144
autorio		115, 688	101, 088 182, 593	93, 798 190, 846	121,500
Tea		121, 855 84, 992	51, 030	52, 002	
gallons	42, 763	52, 420	46, 138	37, 300	51, 847
( varde			81, 648 270, 459	58, 320 98, 164	88, 452 152, <b>963</b>
woolen manufactures { dollars	116, 154	75, 830	96, 714	46, 656	65, 124
Woolen blankets			42, 852 184, 622		81, 252 81, <b>64</b> 8
All other articlesdollars					
Total importsdollars	4, 915, 720	5, 452, 551	6, 166, 553	4, 971, 245	5, 678, 574
Caps Colony.					
Agricultural implementsdollars	284, 810	185, 652	157, 464	135, 594	112, 266
Agricultural machinerydollars	62,694	21, 884	21,870	23, 814	34, 992
Apparel and slopsdollars	1, 685, 934 1, 003, 233	1, 419, 120 1, 410, 401	1, 474, 824 920, 451	1, 687, 392 657, 418	1, 139, 184 981, 205
Bags of all kinds { dollars	295, 974	382, 968	238, 140	139, 968	215, 298
Beer gallons	449, 222		617, 711	724, 274	951, 180
dollars	360, 846	•	483, 026	•	695, 753

<sup>\*</sup> These figures are evidently erroneous, but they are official. Whether the quantity

BRITISH AFRICA.

imported, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
15, 233	<b>34, 2</b> 11	26, 666	87, 792	50, 214	36, 438	56, 699	
114, 696	248, 832	166, 212	244, 944	• 544, 820	827, 509	868, 482	• • • • • • • • • • •
44, 586, 624	0 140 000	176, 103, 024	150, 264, 240		275, 900, 800*		141, 061, 58
2, 176, 794 258, 287	2, 140, 830	2, 610, 793 185, 393	2, 214, 216 183, 245	2, 638, 494 176, 035	1, 544, 022* 180, 656	2, 152, 494 199, 974	1, 863, 82 <b>69</b> , 05
220, 570 77 <b>6, 6</b> 28	84, 564 795, 582	121, 500 765, 450	166, 698 721, 224	174, 960 1, 146, 474	151, <b>6</b> 32 1, 100, <b>790</b>	149, 202 1, 133, 838	61, 72 549, 66
6, 085, 091	8, 649, 054	4, 874, 899	5, 894, 240	7, 849, 571	6, 282, 498	4, 805, 090	3, 190, 37
829, 022 8, 338, 595	206, 064 8, 795, 217	262, 926 6, 618, 383	307, <b>638</b> 5, 872, 053	541, 890 6, 173, 570	483, 084 5, 532, 124	351, 864 5, 464, 014	251, 26 4, 556, 8
325, 620	<b>269</b> , 730	458, 438	<b>385, 39</b> 8	493, 776	512, 244	447, 606	343, 60
217, 242 255, 636	179, J84 339, 228	188, 568 362, 070	188, 082 275, 562	808, 124 462, 672	307, 688 631, 800	250, 290 418, 446	199, 74 222, 10
143, 856	227, 934	54, 432	100, 116	184, 194	504, 468	<b>26</b> 8, 758	29, 10
28, 019 667, 278	80, 852 634, 716	83, 632 539, 946	11, <b>7</b> 35 <b>3</b> 07, 152	10, 454 828, 050	13, 750 815, 994	<b>32,</b> 135 <b>1, 399, 6</b> 80	8, 86 461, 70
<b>330. 480</b> <b>4, 748, 032</b>	804, 722 4, 558, 584	378, 248   <b>4, 09</b> 5, <b>59</b> 0	890, 258 4, 754, 003	518, 076 6, 191, 869	429, 624 6, 514, 817	544, 820 5, 417, 695	516, 13 5, 823, 03
10, 805, 854	9, 990, 070	9, 994, 172	10, 055, 291	13, 532, 899	13, 823, 622	18, 402, 675	9, 821, 44
528, 768	1, 556, 658	746, 982	2, 125, 278	199, 260	120, 528	998, 244	1, 253, 8
10, 834, 622	11, 546, 728	10, 741, 154	12, 180, 569	13, 732, 159	13, 444, 150	14, 400, 919	11, 075, 83
751, 35 <b>6</b> 177, 251	1, 169, 316 147, 241	1, 102, 248 250, 281	789, 264 174, 163	1, 043, 442 153, 243	696, 718 119, 831	754, 272 108, 818	754, 3 99, 0
<b>191, 064</b>	148, 856	<b>26</b> 8, 272	178, 848	159, 408	114,696	112, 266	103, 0
198, 893 88, 988	350, 796 149, 202	456, 826 194, 400	494, 307 212, 382	881, 499 162, 824	827, 628 145, 314	886, 285 150, 660	378, 5 164, 2
2,772,784	1, 074, 976	1, 416, 240 195, 872	2, 171, 680	8, 316, 208 284, 788	1,068,552	8, 148, 208	2, 096, 6
418, 100 4, 767, 568	129, 762 <b>6, 000, 62</b> 5	5, 403, 482	158, 716 2, 807, 444	4, 149, 678	92, 840 <b>8,</b> 742, 980	803, 264 4, 172, 826	152, 1 4, 605, 7
500, 580 184, 570	637, 632 193, 987	576, 058 185, 086	277, 506 121, 218	899, 978 224, 883	841, 658 169, 281	874, 220 153, 804	402, 8 218, 1
133, 650	138, 996	141, 912	87, 966	141, 426	104, 004	85, 586	120, 0
69, 078 467, 532	74, 059 414, 072	59, 094 263, 413	109, 858 617, 706	45, 442 278, 478	89, 851 546, 264	66, 474 839, 328	78, 13 <b>348</b> , 5
664, 862	903, 960	972, 972	745, 524	911, 836	690, 120	687, 204	616, 2
311, 526 872, 7 <b>9</b> 2	210, 438 474, 822	409, 212 646, 866	899, 978 455, 868	510, 800 560, 844	236, 682 874, 220	281, 394 254, 178	190, 5   234, 7
<b>320</b> , 274 <b>327</b> , 673	481, 140 675, 405	551, 610 428, 061	382, 968 245, 840	620, 186 271, 145	861, 584 215, 140	878, 504 187, 746	389, 2 223, 1
<b>62, 208</b>	126, 360	78, 732	45, 198	47, 628	84, 020	30, 618	36, 9
405, 810 184, <b>623</b>	210, 068 2 0, 010	802, 778 187, 110	301, 820 175, 932	426, 708 220, 158	204, 120 191, 970	731, 730 150, 174	521, <b>9</b> 133, 1
7, 417, 872 185, 652	12, 193, 552 282, 866	6, 129, 872 111, 294	17, 043, 152 240, 084	9, 775, 696	12, 649, 056	14, 821, 888 227, 934	11, 093, 8
476, 207	854, 090	230, 637	293, 021	123, 930 349, 202	171, 558 418, 694	844, 651	186, 6 426, 9
118, 098 59, 510	90, 882 102, 503	55, 404 107, 089	65, 124 53, 892	69, 984 41, 679	75, 760 <b>36, 550</b>	63, 180 86, 292	71, 4 25, 8
104, 976	198, 288	221, 616	122, 958	104, 490	67, 554	63, 082	44, 2
207, 515 79, 704	<b>8</b> 89, 702 <b>96, 228</b>	856, 035 118, 238	152, <b>697</b> 52, 488	361, 103 102, 060	817, 654 93, 798	428, 164 106, 434	369, 5 90, 8
72, 856	119, 872	176, 116	86, 974	181, 212	74, 390	74, 660	j 82, 7
180, 306 2, 876, 531	155, 034 <b>4, 304, 6</b> 85	517, 104 4, 445, 188	227, 934 8, 758, 716	855, 752 4, 284, 175	208, 980 <b>8, 769,</b> 020	170, 586 2, 879, 977	190, 0 2, 684, 8
8, 867, 071	10, 577, 090	11, 855, 798	9, 296, 480	10, 757, 795	8, 510, 880	8, 144, 681	7, 880, 1
			455				
120, 842 42, 282	234, 738 59, 778	280, 422 85, 536	166, 698 82, 620	142, 898 67, 554	85, 536 14, 488	101, 088 146, 842	149, 6
1, 521, 666	2, 828, 421	2, 193, 318	2, 889, 270	8, 100, 680	993, 814	1, 822, 406	1, 326, 2
1, 078, 092 226, 962	2, 297, 456 423, 806	1, 900, 269 319, 302	1, 817, 786 281, 880	821, 246	1, 850, 057 828, 050	232, 318	2, 349, 6 236, 1
705, 640	807, 305	1,050,162	1, 226, 897	1, 232, 028	984, 158	472, 887	511, 1
583, 628 Is greater of	636, 660	758, 646	997, 288	861, 192	•	368, 528	871,7

# Quantities and value of principal articles imported,

Cabinet and upholstery wares, dollars.  Cosl (tons 35, 643  Cosles (pounds 4, 312, 224  Cosles (dollars 60, 244  Grain:  Wheat (dollars 60, 244  Maize (dollars 60, 244  Maize (dollars 60, 244  Maize (dollars 60, 244  Maize (dollars 60, 244  Maize (dollars 60, 244  Maize (dollars 60, 244  Maize (dollars 7, 344  Cotton manufactures (dollars 8, 402  Mary (dollars 60, 244  Maize (dollars 7, 344  Cotton manufactures (dollars 8, 402  Mary (dollars 19, 247, 374  Cotton manufactures (dollars 19, 306, 660  Iron:  Bar, bolt, and rod (dollars 19, 306, 660  Iron:  Bar, bolt, and rod (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Iron:  Bar, bolt, and rod (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 3522, 288  Cotton manufactures (dollars 19, 324  Cotton manufactures (dollars 19, 324  Cotton manufactures (dollars 19, 324  Cotton manufactures (dollars 19, 324  Cotton manufactures (dollars 19, 324  Cotton manufactures (dollars 19, 324  Cotton manufactured (dollars 19, 324  Cotton manufactured (dollars 19, 324  Cotton manufactured (dollars 19, 324  Cotton manufactured (dollars 19, 324  Cotton feet (dollars 19, 324  Co	500, 580 48, 474 869, 640 8, 469, 472 1, 428, 384 872, 464 571, 050 379 14, 590 23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	231, 836 131 34, 992 21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 328, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504	14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240	709, 560 10, 489, 360
Cabinet and upholstery wares, dollars   392, 202   302, 202   302, 202   304, 346   346, 346, 346   346, 346, 346   346, 346, 346   346, 346, 346   346, 346, 346   346, 346, 346, 346	48, 474 859, 640 8, 469, 472 1, 428, 384 872, 464 571, 050 23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	50, \$12 285, 768 8, 915, 168 1, 885, 586 217, 440 231, 836 131 84, 992 21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 828, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	65, 253 296, 946 7, 462, 960 1, 099, 612 168, 989 185, 166 14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	65, 152 281, 880 9, 449, 216 1, 436, 616 254, 996 402, 408 1, 036 3, 518 61, 236 1, 001, 166 1, 932, 748 2, 144, 232 1, 432, 728 5, 091, 631 102, 066 7, 754, 864 823, 676 1, 107, 108 238, 906 278, 966 709, 566 10, 489, 366 249, 318
Coal	48, 474 859, 640 8, 469, 472 1, 428, 384 872, 464 571, 050 23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	50, \$12 285, 768 8, 915, 168 1, 885, 586 217, 440 231, 836 131 84, 992 21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 828, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	65, 253 296, 946 7, 462, 960 1, 099, 612 168, 989 185, 166 14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	65, 152 281, 880 9, 449, 216 1, 436, 616 254, 996 402, 408 1, 036 3, 518 61, 236 1, 001, 166 1, 932, 748 2, 144, 232 1, 432, 728 5, 091, 631 102, 066 7, 754, 864 823, 676 1, 107, 108 238, 906 278, 966 709, 566 10, 489, 366 249, 318
Cosl	48, 474 859, 640 8, 469, 472 1, 428, 384 872, 464 571, 050 23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	50, \$12 285, 768 8, 915, 168 1, 885, 586 217, 440 231, 836 131 84, 992 21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 828, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	65, 253 296, 946 7, 462, 960 1, 099, 612 168, 989 185, 166 14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	65, 152 281, 880 9, 449, 216 1, 436, 616 254, 996 402, 408 1, 036 3, 518 61, 236 1, 001, 166 1, 932, 748 2, 144, 232 1, 432, 728 5, 091, 631 102, 066 7, 754, 864 823, 676 1, 107, 108 238, 906 278, 966 709, 566 10, 489, 366 249, 318
Coffee	8, 469, 472 1, 428, 384  872, 464 571, 050 879 14, 590 23, 814 675, 540 2, 458, 188 2, 791, 584  1, 716, 066  7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	8, 915, 168 1, 885, 586  217, 440 231, 836 131 34, 992 21, 384 339, 228 2, 443, 122 2, 790, 612  1, 893, 456  8, 156, 624 223, 074 9, 328, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	7, 462, 960 1, 099, 612  168, 989 186, 166 14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456  1, 887, 624  8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	9, 449, 216 1, 436, 616 254, 996 402, 408 1, 036 3, 518 61, 236 1, 001, 166 1, 932, 748 2, 144, 232 1, 432, 728 5, 091, 632 102, 066 7, 754, 864 823, 676 1, 107, 108 228, 906 278, 966 709, 566 10, 489, 366 249, 318
Wheat	872, 464 571, 050 879 14, 590 23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	217, 440 231, 836 131 84, 992 21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 328, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	168, 989 185, 166 14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	254, 990 402, 408 1, 030 8, 518 61, 236 1, 001, 166 1, 932, 748 2, 144, 232 1, 432, 728 5, 091, 632 102, 060 7, 754, 864 823, 676 1, 107, 108 238, 906 278, 964 709, 560 10, 489, 360 249, 318
Barley	571, 050 379 14, 590 23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	231, 836 131 34, 992 21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 828, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	185, 166 14, 094 17, 982 34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	402, 408 1, 030 3, 518 61, 236 1, 001, 166 1, 932, 748 2, 144, 233 1, 432, 728 5, 091, 633 102, 066 7, 754, 864 823, 676 1, 107, 106 238, 906 278, 966 709, 566 10, 489, 366 249, 318
Maize	23, 814 675, 540 2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	21, 384 339, 228 2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 328, 368 490, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	34, 020 854, 294 2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	61, 236 1, 001, 166 1, 932, 748 2, 144, 233 1, 432, 728 5, 091, 633 102, 060 7, 754, 864 823, 676 1, 107, 108 238, 906 278, 966 709, 561 10, 489, 366 249, 318
Cotton manufactures   dollars   2,882,466   Haberdashery and millinery   dollars   3,066   660   Hardware, cutlery, and ironware, dollars   2,083,968   196,774   19	2, 458, 188 2, 791, 584 1, 716, 066 7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	2, 443, 122 2, 790, 612 1, 893, 456 8, 156, 624 223, 074 9, 828, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	2, 210, 814 2, 379, 456 1, 887, 624 8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	1, 932, 748 2, 144, 235 1, 432, 728 5, 091, 635 102, 066 7, 754, 964 823, 676 1, 107, 106 238, 906 278, 966 709, 566 10, 489, 366 249, 318
Bar, bolt, and rod   dollars   196, 774     Sheet   Sheet   Spounds   dollars   3, 522, 288     Leather manufactures   dollars   1, 287, 414     Linen manufactures   dollars   224, 046     Machinery, not agricultural   dollars   87, 480     Deals   Manufactures   dollars   224, 046     Sheet   Spounds   391, 200     All stationery   Spounds   391, 200     All stationery   Spounds   389, 286     All stationery   Spounds   389, 286     All stationery   Spounds   389, 286     All stationery   Spounds   348, 200     All st	7, 242, 960 246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	8, 156, 624 223, 074 9, 328, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	8, 501, 584 194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	5, 091, 632 102, 060 7, 754, 864 823, 676 1, 107, 106 228, 966 278, 966 709, 560 10, 489, 360 249, 318
Bar, bolt, and rod   dollars   198, 774	246, 888 3, 870, 832 224, 532 1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	223, 074 9, 828, 368 480, 654 1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	194, 400 11, 711, 616 569, 106 1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	102, 060 7, 754, 964 823, 676 1, 107, 106 238, 906 278, 964 709, 560 10, 489, 360 249, 318
Leather manufactures	1, 204, 308 237, 168 90, 882 580, 284 12, 676, 320 376, 650 826, 106	1, 394, 334 286, 154 155, 520 599, 724 6, 069, 504 150, 174	1, 551, 312 298, 890 204, 120 525, 852 11, 146, 240 264, 870	823, 676 1, 107, 106 238, 906 278, 966 709, 566 10, 489, 366 249, 318
Machinery, not agricultural   dollars   87, 480   391, 200   7, 832, 134   158, 922   389, 286	90, 882 580, 284 12, 676, 320 376, 650 826, 106	155, 520 599, 724 6, 069, 504 150, 174	204, 120 525, 852 11, 146, 240 264, 870	278, 966 709, 566 10, 489, 366 249, 318
Spirits   Spir	376, 650 <b>826,</b> 106	150, 174	264, 870	249, 31
Brandy	105, 009		,	
Whisky       dollars       141, 912         gallons       2, 269         dollars       5, 346         266, 814       20         20, 481, 200       1, 121, 688         pounds       908, 462         pounds       243, 000         Pounds       814, 951         dollars       78, 246         Cigars       dollars       158, 580         Wine, French       gallons       27, 869         Wood:       cub. feet       484, 192         Manufactured       dollars       58, 974         Woolen manufactures       dollars       1, 510, 488	105.009			<b>,</b>
Stationery	824, 162 2, 545	46, 022 132, 678 3, 084	91, 623 289, 656 6, 016	86, 480 298, 890 1 <b>9</b> , 667
Sagar, raw       { pounds dollars 1, 121, 688         Tea { pounds dollars 243, 000         Tobacco:       { pounds dollars 243, 000         Manufactured { pounds dollars 278, 246         Cigars { pounds dollars 278, 246         Wine, French { gallons 27, 869         Wood:       { cub. feet 484, 192         Deals { dollars dollars 484, 192         Woolen manufactures dollars dollars 1, 510, 488	4, 626	6, 318	14, 094	34, 999
Colors   C	284, 310 21, 881, 264 1, 140, 642	357, 210 21, 038, 640 1, 054, 620	379, 902 20, 084, 848 985, 525	835, 826 20, 147, 844 1, 138, 796
Manufactured       { pounds   dollars   78, 246   78, 246   16, 679   158, 580   158, 580   27, 869   80, 938   80, 938   80, 938   80, 938   80, 938   179, 334   179, 334   1510, 488	915, 816 191, 484	768, 447 155, 520	723, 110 144, 828	738, 127 138, 650
Wine, French       gallons       27, 869         Wood:       dollars       80, 938         Wood:       cub. feet       484, 192         dollars       179, 334         Manufactured       dollars       52, 974         Woolen manufactures       dollars       1, 510, 488	277, 937 80, 676 6, 715	450, 258 121, 500 11, 138	318, 382 87, 480 23, 527	397, 945 112, 752 57, 002
Wood:       { dollars   80, 938	<b>8</b> 8, <b>938</b>	98, 172	106, 920	• 90, 390
Deals       { cub. feet. dollars       484, 192         Manufactured       179, 334         Woolen manufactures       dollars       52, 974         1, 510, 488	18, 912 <b>6</b> 0, 750	22, 868 77, 274	19, 954 81, 648	14, 35% 61, 72
Manufactured dollars 52, 974 Woolen manufactures dollars 1, 510, 488	943, 214	1, 029, 030	973, 150	826, 291
Woolen manufacturesdollars 1, 510, 488	<b>39</b> 5, 118 <b>93, 6</b> 58	874, 220	308, 124	261, 95
	1, 487, 102 6, 756, 270	127, 332 1, 297, 134 7, 367, 523	181, 764 1, 096, 902 7, 721, 508	164, 26 796, 06 8, 134, 17
Total merchandisedollars 24, 933, 292	27, 196, 147	26, 991, 010	26, 769, 915	26, 071, 63
Specie: Golddollars 1, 417, 030 Silverdollars 146, 043	708, 440	959, 302 56, 619	1, 301, 941 260, 010	1, 374, 291 74, 356
Total speciedollars 1, 563, 073			1, 561, 951	1, 448, 649
Total imports	103, 032	1, 015, 921		

including bullion and specie—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
396, 576 115, 479 406, 296 12, 622, 512 1, 613, 520	662, 418 170, 847 668, 736 8, 622, 096 938, 952	940, 896 168, 819 726, 084 10, 711, 008 1, 236, 384	1, 149, 876 218, 700 910, 278 18, 848, 680 1, 296, 648	1, 203, 336 236, 561 885, 492 8, 963, 280 709, 962	577, 868 184, 002 818, 078 9, 242, 128 757, 674	833, 882 163, 076 716, 850 13, 270, 982 1, 272, 834	293, 088 245, 786 1, 055, 592 9, 244, 256 734, 832
770, 769 1, 054, 134 41, 796 72, 900 524, 880 945, 756 2, 633, 634 2, 559, 276	349, 432 392, 860 21, 384 49, 086 220, 644 800, 442 3, 520, 098 3, 096, 792	658, 472 756, 702 89, 366 32, 076 285, 768 557, 948 8, 008, 826 8, 470, 040	695, 710 776, 142 168, 156 259, 524 868, 874 910, 596 8, 237, 246 3, 949, 722	949, 148 1, 164, 344 49, 572 8, 262 151, 632 662, 418 8, 008, 826 8, 932, 226	830, 024 1, 140, 156 84, 506 41, 796 192, 942 1, 047, 816 1, 698, 570 2, 297, 808	717, 438 832, 518 466 539 166, 782 678, 942 2, 135, 484 2, 613, 576	873, 198 870, 912 865 29, 160 238, 626 822, 704 2, 040, 228 2, 562, 192
1, 473, 066	2, 422, 224	2, 923, 290	8, 591, 054	8, 568, 838	2, 060, 154	1, 882, 184	981, 234
5, 908, 756 101, 574 6, 718, 768 202, 440 1, 396, 278 253, 692 283, 858 958, 392 17, 036, 992 471, 906 821, 246	8, 008, 112 151, 146 14, 634, 368 607, 014 1, 678, 158 388, 314 330, 966 1, 064, 340 14, 590, 128 384, 426 524, 394	4, 310, 512 166, 698 18, 512, 032 775, 170 1, 937, 196 247, 860 445, 176 1, 030, 806 5, 860, 400 159, 894 630, 828	8, 351, 392 172, 530 15, 639, 456 665, 334 2, 350, 296 302, 292 1, 051, 218 1, 729, 674 18, 724, 160 442, 260 689, 634	795, 096 2, 441, 178 295, 974 662, 418 1, 514, 370 10, 719, 520 204, 120 480, 654	5, 114, 144 100, 602 12, 283, 936 383, 940 1, 399, 680 141, 912 174, 474 1, 159, 596 15, 444, 464 804, 722 150, 660	287, 226 1, 878, 866 92, 340 110, 808 1, 008, 450 10, 324, 832 225, 018 126, 360	54, 432 241, 628 1, 158, 624 115, 182 171, 072 860, 706 11, 631, 760 232, 794 104, 976
75, 647 261, 448 23, 734 49, 086 438, 372 29, 904, 784 1, 571, 238 1, 999, 968 354, 780	86, 939 299, 862 33, 260 67, 068 518, 076 23, 437, 072 1, 328, 724 836, 510 139, 482	93, 872 831, 452 39, 778 78, 532 559, 872 81, 791, 424 1, 665, 036 1, 087, 481 174, 960	107, 775 420, 390 74, 326 146, 286 682, 830 84, 144, 688 1, 671, 840 1, 032, 500 162, 824	122, 068 432, 054 62, 787 122, 958 715, 392 41, 681, 248 1, 964, 898 1, 139, 311 194, 886	58, 181 208, 008 63, 490 131, 706 528, 282 80, 373, 168 1, 599, 912 1, 137, 519 180, 792	49, 798 206, 064 81, 849 165, 240 435, 456 29, 871, 968 1, 814, 630 1, 205, 032 190, 512	39, 384 171, 072 63, 611 128, 790 406, 782 25, 265, 104 888, 408 1, 140, 260 173, 016
577, 587 148, 230 110, 527 156, 492 20, 756 86, 994	819, 037 203, 634 83, 120 127, 832 37, 135 139, 968	369, 053 110, 898 118, 849 161, 352 38, 762 173, 908	408, 818 155, 034 143, 079 187, 522 56, 529 275, 562	368, 594 142, 398 210, 026 243, 000 58, 880 239, 112	880, 582 130, 734 94, 265 108, 464 20, 802 72, 900	229, 815 62, 694 48, 059 63, 180 11, 266 40, 824	145, 541 47, 198 63, 908 72, 900 7, 553 39, 852
699, 040 219, 672 179, 384 964, 710 7, 251, 865	1, 567, 191 368, 302 281, 880 1, 358, 370 7, 987 943	1, 059, 507 268, 272 476, 280 1, 499, 796 8, 744, 471	2, 113, 007 571, 596 636, 660 1, 516, 806 10, 144, 333	1, 879, 249 507, 870 578, 826 1, 918, 242 12, 054, 746	1, 088, 526 257, 580 478, 710 875, 548 10, 812, 180	458, 294 107, 406 208, 980 683, 802 6, 460, 142	751, 869 166, 698 178, 862 751, 916 5, 950, 840
29, 897, 461	84, 427, 938	87, 256, 971	44, 846, 233	45, 585, 090	81, 446, 101	25, 510, 425	28, 196, 234
2, 120, 748 2, 994	<b>2</b> , <b>822</b> , 087 15, 552	1, 795, 770 278, 478	2, 678, 248 46, 024	1, 288, 682 124, 027	1, 028, 277	8, 499 53, 373	974, 189 89, 181
2, 128, 742	2, 837, 589	2, 074, 248	2, 719, 267	1, 412, 709	1, 028, 277	56, 872	1, 068, 370
<b>32,</b> 021, 203	87, 265, 527	89, 881, 219	47, 565, 500	46, 947, 799	82, 469, 878	25, 567, 287	24, 259, 601

<sup>73—</sup>No. 85——12

# Quantities and values of principal articles importea,

· Articles.	1873.	1874.	1875.	1876.	1877.
WEST COAST.					
Lagos.*			! _		
Cotton goodsdollars	890, 976	886, 464	1, 181, 466	1, 175, 148	1, 404, 540
younds.	. 2, 372, 608	2, 414, 048	2, 451, 344	5, 212, 816	6, 786, 976
gallons.	. 74, 749	67, 554 118, 127	62, 208 120, 615	99, 144 242, 532	1 <b>63</b> , 782 <b>296</b> , 468
donars		73, 872 11, 43 <b>9</b>		134, 136 2, 645	17 <b>6, 90</b> 4 1 <b>6,</b> 526
dollars	16, 524	24, 786	10, 692	5, 832	33, 048
dollars	. 4, 800	877 8, 2 <b>62</b>	1, <b>69</b> 3 14, 580	1, 872 16, 038	4, 154 37, 42:
Isrdwaredollars	.  13, 608	30, 618 323, 900	38, 394 443, 809	38, 880 542, 782	35, 91; 1, 009, 46;
dollars	. 104, 976	137, 052	173, 988	199, 746	347, 22
Bhooks		7, 418 2 <b>9, 646</b>	13, 485 51, 516	14, 616 52, 488	17, 33 63, 18
robacco		711, 025 90, <b>396</b>	1, <b>30</b> 9, 196 149, 202	1, 307, 155 169, 614	1, 401, 517 163, 29
All other articlesdollars	11, 330	<b>345, 721</b>	468, 684	426, 285	560, 478
Total importsdollars	1, 258, 176	1, 694, 371	2, 234, 322	2, 317, 311	2, 985, 78
Gold Coast.					
Cotton goodsdollars			1	953, 046	493, 29
Geneva				87, 990 31, 104	32, 83 24, 49
dollars			••••	• • • • • • • • • • • • • • • • • • • •	67
Haberdasherv and millinery dollars				75, 330	69, 49
Hardware and cutlerydollars				107, 406 302, 236	<b>65,</b> 610 <b>469,</b> 081
dollars				209, 952	256, 12
Pohoso	-			34, 020 801, 009	52, 402 368, 467
	-		•••••	66, 582 11, 655	76, 78 12, 02
				23, 814	14, 09
			<del></del>		423, 00
Total merchandisedollars Speciedollars			L		1, 475, 376 115, 18
Total importsdellars				2, 167, 988	1, 590, 55
Bierra Leone.					
Ale and beerdollars			İ	15, 163	13, <b>6</b> 0
Apparéldollars				15, 066	13, 12
Beadsdollarsdollarsdollarsdollars		• • • • • • • • • • • • • • • • • • • •		490, 860	962, 22
Flour and breaddollars Gunpowderdollars					46, 17
Haberdasherydollars				61, 723	57, 83
Hardwaredollars Hats and capsdollars		• • • • • • • • • • • • • • • • • • • •		17, 496	52, 48 12, 15
Lumberdollars				6, 804	13, 12
dollars.					
dollars					
Rum Sgallons.				230, 385	
Tobacco namenafactural pounds.				1, 006, 422	758, 79
All other articlesdollars				170, 586 227, 622	199, 266 235, 539
Total merchandise				1, 400, 375	1, 905, 77
Specie				194	
Total imports				1, 400, 569	1, 905, 771

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
942, 844	826, 686	688, 176	495, 720	914, 166	1, 118, 286	1, 093, 986	941, 7
10, 017, 804	7, 565, 688	<b>8, 598</b> , 112	1, 353, 184	1, 090, 070	1, 782, 816	1, 522, 796	1, 479, 4
99, <b>63</b> 0 264, 140	170, 100 <b>43</b> 3, 977	87, 966 <b>4</b> 56, 162	30, 618	29, 646 502, 607	43, 254 782, 685	84, 992	32, 8
178, 302	<b>30</b> 8, <b>6</b> 10	221, 582	488, 222 231, 336	300, 318	361, 098	1, 105, 698 497, 278	1, 369, 9 597, 2
8, 659	8,413	20, 404	7,758	2, 088	3, 699	5, 947	12, 0
16, 524	29, 646	34, 992	14, 580	8, 883	6, 804	9, 914	29, 1
1, 877	848	839	1,761	1,726	2,688	8, 422	1, 8
16, 524 35, 964	8, 748 29, 674	7, 290 32, 562	8, <b>6</b> 08 24, 786	25, 758 21, 384	19, 926 48, 114	29, 160 54, 432	14, 0 75, 8
839, 160 l	1, 259, 640	568, 197	685, 738	419, 848	849, 536	831, 122	407, 8
286, 254	357, 210	219, 672	<b>261, 9</b> 54	147, 258	116, 154	108, 864	120, 0
10, 130	7, 549	9, 996	9, 007	12, 407	14, 887	9, 038	12, 1
42, 28 ?	34, 992	44, 226	<b>36, 4</b> 50	59,778	94, 770	42, 768	57, 3
1, 412, 867 156, 006	<b>1, 349, 922</b> 146, 286	1, 200, 164 117, 126	1, 151, 687 118, 584	1, 188, 835 131, 220	1,077,817	1, 261, 623 136, 566	1, 122, 2 137, 0
576, 082	<b>65</b> 3, 503	523, 276	391, 952	487, 988	582, 859	607, 594	631, 5
2, 850, 408	2, 565, 458	1, 979, 818	1, 614, 588	2, 071, 371	2, 507, 415	2, 615, 554	2, 636, 5
						j	İ
607, 014	<b>620, 620</b>	<b>64</b> 3, <b>95</b> 0	644, 144	· · · · · · · · · · · · · · · · · · ·	•••••••	• • • • • • • • • • • • • • • • • • • •	· <i>••</i> ••••
34, 501 25, 758	28, <b>69</b> 2 <b>24, 30</b> 0	. 35, 022	38, 485 29, 646	• • • • • • • • • • • • • • • • • • • •			*******
111, 158	93, 497	80, 453	108, 893			••••••••••	
15, 552	11, 664	8,748	12, 636				••••
65, 610	81, 104	32, 590	17, 982				
75, 830	12, 636	52, 002	75, 330				
494, 803 261, 954	454, 702 240, 570	606, 469 149, 688	507, 027 312, 498	••••••			
39, 366	85, 534	16, 524	22, 842				
854, 705	278, 000	279, 701	482, 491				
75, 830	48, 114	23, <b>328</b>	73, 872				
10, 955 16, 524	12, 825	5, 048	14, 573	• • • • • • • • • • • • • • • • • • • •			
540, 690	14, 094 421, <b>0</b> 21	14, 580 <b>569, 437</b>	24, 094 552, 383				
1, 723, 128	1, 459, 657	1, 545, 869	1, 765, 427				
192, 456	110, 312	93, 156	169, 456				
1, 915, 584	1, 569, 969	1, 639, 025	1, 934, 883				
<u> </u>							
19, 440	16, 038	19, 440	14, 580			•••••	• • • • • • • • • • • •
13, 608	14, 580	10, 050	10, 206				
1, 264, 572	23, 272 714, 068	29, <b>646</b>	21, 870 745, 524		• • • • • • • • • •		• • • • • • • • •
1, 200, 012	46, 170	875, 870   57, 348	41, 810				
36, 450	87, 908	26, 730	14, 094				
<b>86, 508</b>	71, 928	77, 760	101, 088				
77, 760	68, 040	79, 704	55, 404			l .	
20, 412 14, 560	10, <b>692</b> 15, 552	12, 636 15, 066	15, 552 9, 23 <b>4</b>				B .
	44, 250	81, 530	182, 930				
	8, 262	18, 608	28, 674				
•••••	4, 205, 264	5, 165, 664	2, 030, 224				• • • • • • • • • • • • • • • • • • • •
	183, 164 <b>76</b> , 407	141, 912 87, 515	86, 376 51, 710				
	56, 862	74, 358	38, <b>8</b> 80				
322, 146	326, 330	423, 184	251, 846				
157, 464	168, 156	165, 726	122, 472				• • • • • • • • • • • • • • • • • • • •
844, <b>6</b> 72   260, 010	929, 005	1, 675, 071	962, 572			• • • • • • • • • • • • •	
313, <b>664</b>	130, 248 473, 764	227, 448 510, 873	121, 014 357, 240	• • • • • • • • • • • • • • • • • • • •		••••••	
2, 552, 366	1, 990, 086	2, 305, 185	1, 758, 732				
5, 005	•••••	85, 901	60, 730	••••••			

# Quantities and values of principal articles importea,

Articles.	1873.	1874.	1875.	1876.	1877.
WEST COAST.	•				
Lagos.*					
Cotton goodsdollars	890, 976	886, 464	1, 181, 466	1, 175, 148	1, 404, 540
Cowries	2, 372, 608 78, 702	2, 414, 048 67, 554	2, 451, 344 62, 208	5, 212, 816 99, 144	6, 786, 976 1 <b>63</b> , 782
Garage Sgallons	74, 749	118, 127	120, 615	242, 532	<b>296</b> , 468
Carra (donara)	42, 282 6, 756	73, 872 11, 439	83, 592 8, 789	134, 136 2, 645	176, 904 16, 526
( donars	16, 524 460	24, 786 877	10, <b>69</b> 2 1, <b>69</b> 3	5, 832 1, 872	33, 048 4, 154
Gunpowder	4, 800 13, 608	8, 262	14, 580	16, 038	37, 422
S gallons	264, 042	30, 618 323, 900	38, 394 443, 809	38, 880 542, 782	<b>35</b> , 915 <b>1</b> , 009, 467
Shooks. Adollars	104, 976 6, 845	137, 05 <b>2</b> 7, <b>4</b> 18	173, 988 13, 485	199, 746 14, 616	. 847, 220 17, 331
dormie	21. 076 457, 431	29, 64 <b>6</b> 711, 025	51, 516 1, 309, 196	52, 488 1, 307, 155	63, 180 1, 401, 517
100acco { dollars	73, 872	90, 396	149, 202	169, 614	163, 296
All other articlesdollars	11, 330	845, 721	468, 684	426, 285	560, 478
Total importsdollars	1, 258, 176	1, 694, 371	2, 234, 322	2, 317, 311	2, 985, 785
Gold Coast.					
·				953, 046	402 906
Commo Spallons				87, 990	493, 290 82, 830
( pounds			• • • • • • • • • • • • • • • • • • • •	31, 104	24, 494 673
Gun powder				75, 330	68 69, 498
Hardware and cutlerydollars				107, 406	65, 610
Rum			• • • • • • • • • • • • • • • • • • • •	<b>209, 9</b> 52	469, 081 256, 12 <b>2</b>
Silk goodsdollars pounds pounds dollars					52, 402 368, 467
C malloma					76, 788 12, 028
dollara			•••••	23, 814	14, 094
All other articles				564, 410	423, 004
Total merchandisedollars Speciedollars				2, 005, 664 162, 324	1, 475, 370 115, 182
Total importsdollars				2, 167, 988	1, 590, 552
Sierra Leone.					
<u> </u>		1			
Ale and beerdollarsdollars					13, <b>6</b> 08 13, 122
Beadsdollarsdollarsdollars				490, 860	962, 224
Flour and breaddollars Gunpowderdollars	1				46, 170
Haberdasherydollars				61, 722	57, 834
Hardwaredollarsdollarsdollars	1			17, 496	
Lumberdollars				6, 804	13, 122
Activacue					
{ QOILSTS	1				
Spirite. Garage (gallons					
Rum gallons				230, 385	213, 260
Tobacco namenafactured pounds				1, 006, 422	758, 798
All other articlesdollars				170, 586 227, 622	199, 260 235, 539
Total merchandise				1, 400, 375	1, 905, 771
Specie				1, 200, 373	
Total imports				1, 400, 569	1, 905, 771

<sup>\*</sup> Including goods in transit.

1878.	1879.	1890.	1881.	1882.	1883.	1884.	1885.
942, 844 10, 017, 804 99, 630 264, 140 178, 302 8, 659 16, 524 1, 877 16, 524 85, 964 839, 169 286, 254 10, 130 42, 28 1 1, 412, 867 156, 006 576, 082	826, 686 7, 565, 688 170, 100 433, 977 308, 610 8, 412 29, 646 848 8, 748 29, 674 1, 259, 640 357, 210 7, 549 34, 992 1, 349, 922 146, 286 653, 503	688, 176 8, 598, 112 87, 966 456, 162 221, 532 20, 404 34, 992 839 7, 290 32, 562 568, 197 219, 672 9, 996 44, 226 1, 200, 164 117, 126 523, 276	495, 720 1, 353, 184 80, 618 488, 222 231, 336 7, 758 14, 580 1, 761 8, 608 24, 786 685, 738 261, 954 9, 007 86, 450 1, 151, 687 118, 584 891, 952	914, 166 1, 090, 070 29, 646 502, 607 300, 318 2, 038 3, 888 1, 726 25, 758 21, 384 419, 348 147, 258 12, 407 59, 778 1, 188, 835 131, 220 437, 938	1, 118, 286 1, 782, 816 43, 254 782, 685 361, 098 3, 699 6, 804 2, 688 19, 926 48, 114 349, 536 116, 154 14, 387 94, 770 1, 077, 817 112, 610 582, 359	1, 093, 986 1, 522, 796 84, 992 1, 105, 698 497, 278 5, 947 9, 914 8, 422 29, 160 54, 432 331, 122 108, 864 9, 038 42, 768 1, 261, 623 136, 566 607, 594	941, 788 1, 479, 408 32, 862 1, 369, 912 597, 294 12, 040 29, 160 1, 805 14, 094 75, 830 407, 864 120, 042 12, 126 57, 348 1, 122, 201 137, 052 631, 591
2, 850, 408	2, 565, 458	1, 979, 818	1, 614, 588	2, 071, 871	2, 507, 415	2, 615, 554	2, 636, 561
607, 014 84, 501 25, 758 111, 158 15, 552 65, 610 75, 830 494, 805 261, 954 39, 866 854, 705 75, 830 10, 955 16, 524 540, 690 1, 723, 128 192, 456 1, 915, 584	28, 692 24, 300 93, 497 11, 664 81, 104 12, 636 454, 702 240, 570 85, 534 278, 000 48, 114 12, 825 14, 094 421, 021 1, 459, 657 110, 312 1, 569, 969	643, 950  · 35, 022 80, 453 8, 748 32, 590 52, 002 606, 469 149, 688 16, 524 279, 701 23, 328 5, 048 14, 580 569, 437  1, 545, 869 93, 156  1, 639, 025	644, 144 38, 485 29, 646 108, 893 12, 636 17, 982 75, 330 507, 027 312, 498 22, 842 482, 491 73, 872 14, 573 24, 094 552, 383 1, 765, 427 169, 456 1, 934, 883				
19, 440 13, 608 1, 264, 572 36, 450 96, 508 77, 760 20, 412 14, 560 322, 146 157, 464 844, 672 260, 010 313, 664 2, 552, 366 5, 005	16, 038 14, 580 25, 272 744, 968 46, 170 37, 908 71, 928 68, 040 10, 692 15, 552 44, 250 8, 262 4, 205, 264 133, 164 76, 407 56, 862 326, 330 168, 156 929, 005 130, 248 473, 764  1, 990, 086	19, 440 10, 050 29, 646 875, 370 57, 348 26, 730 77, 760 79, 704 12, 636 15, 066 81, 530 13, 608 5, 165, 664 141, 912 87, 515 74, 858 423, 184 165, 726 1, 675, 071 227, 448 510, 873	14, 580 10, 206 21, 870 745, 524 41, 810 14, 094 101, 088 55, 404 15, 552 9, 234 182, 930 28, 674 2, 030, 2:4 86, 376 51, 710 38, 880 254, 846 122, 472 962, 572 121, 014 357, 240 1, 758, 732 60, 730				
2, 557, 371	1, 990, 086	2, 391, 086	1, 819, 462				

# Quantities and values of principal articles imported,

Articles.	1878.	1874	1876.	1876.	1877.
WEST COAST—Continued.					1
Gambia.					
le and porter				8, 844	6, 318
Lie and porterdollars.				1, 448	996
Seadsdollars. Bread and biscuitdollars.				695	1, 074
read and biscuitdollars.	•	•••••		8, 149	4, 277
ocoanutsdollars.otton goodsdollars.	• • • • • • • • • • • • • • • • • • • •	••••••	••••••	90, 88 <b>2</b> 82, 000	74, 840 98, 658
annowder dollars.		1		4 191	8. 748
uns and pistolsdollars.				8, 262	11, 17
Lardwaredollars.				7,776	9, 574
licedollars.				49, 572	40, 82
pirits: Rumdo'lars.				17, 496	17, 983
pirits: Kum do lars. gear dollars.	•		•••••	51, 699 3, 737	71, 714 5, 83
	•			85 <b>9</b> , <b>55</b> 0	805, 400
lobacco dollara.	•••••••••			67, 55 <b>6</b>	52, 488
gallons				12, 886	19, 574
dollars.				7, 290	11, 664
All other articlesdollars.				85, 832	107, 749
Makal Jamasaha dallam		·	ı	494 070	459 000
Total importsdollars.				434, 270	452, 20
Recapitulation.		İ			<u> </u>
Familia.	ļ		1		
Aauritius:  Merchandisedollars .	10, 530, 167	11 700 140	8 010 875	8, 783, 541	10, 640, 230
Speciedollars.	1, 396, 764	759, 132	8, 919, 675 1, 747, 170	2, 317, 734	
Toal importsdollars.		12, 558, 281	10, 666, 845	11, 101, 275	11, 466, 92
Vatal:					
Merchandisedollars.	4, 915, 720	5, 452, 551	6, 166, 553	4, 971, 245	5, 678, 57
Speciedollars. Total importsdollars.	4, 915, 720	5, 452, 551	6, 166, 553	4, 971, 245	5. 673, 57
ape Colony:	2, 810, 120	0, 202, 001	d, 100, 335	1, 811, 200	0.010,01
Merchandisedollars.	24, 633, 292	27, 196, 147	26, 991, 010	26, 769, 915	26, 071, 63
Speciedollara.	1, 863, 073	809, 472	1,015,921	1, 561, 951	1,448,649
Total importsdollars.	26, 496, 865	28, 005, 619	28, 006, 931	28, 331, 866	27, 520, 28
agos:	1 050 450			0.004.404	
Merchandisedollars.	1, 258, 176	1, 694, 871	<b>2, 216, 583</b>	2, 304, 481	2, 957, 11
Speciedollarsdollarsdollars	1, 258, 176	1, 694, 871	17, 739 2, 234, 322	12, 830 2, 317, 811	28, 674 2, 965, 78
Hold Coast:	1, 200, 110	1,002,011	2, 202, 022	27 011, 011	2, 000, 10
Merchandisedollars		 		2, 005, 664	1, 475, 870
Speciedollara.				162, 324	115, 18
Total importsdollars.				<b>2, 167, 988</b>	1, 590, 553
ierra Leone : Merchandisedollars.		İ		1 400 075	1 005 87
Speciedollars.				1, 400, 875 194	1, 905, 77
Total importsdollars.				1, 400, 569	1, 905, 77
ambia:				_,,	_, , , , , , , ,
Merchandisedollars.				434, 270	452, 201
Speciedollars.			1 1		
Total imports dollars.			[	<b>434, 27</b> 0	452, 206
Total for British Africa:		1	ļ .	40 600 401	40 175 00
Merchandisedollars. Speciedollars.	•••••••••••••••••••••••••••••••••••••••			46, 669, 491 4, 055, 078	49, 175, 902 2, 419, 191
Total importsdollars.				50, 724, 564	51, 595, 003

1878.	1879.	1880.	1881.	1882.	1883.	1884. 	1885.
# coo	n one	0 740	<b>A</b> 204				
5, 832 2, 969	7, 776 5, 346	8, 748 7, 77 <b>6</b>	6, 80 <u>4</u> 6, 80 <u>4</u>				
8, 922	8, 319	4, 680	4, 530				
4,471	6, 804	9, 234	4, 554				
110, <b>322</b> 173, 316	128, 390 206, 068	133, <b>650</b> 183, 708	141, 426 13 <b>6</b> , 080				
16, 038	10, 692	4, 645	7, 776				
<b>31, 590</b>	22, 842	83, 048	11, 178		1		1
13, 122	18, 468 96, 228	18,608	6, 804 <b>6</b> 0, 064				
73, 886 36, <b>936</b>	18, 954	120, 042 49, 572	23, 328				
120, 130	160, 434	182, 117	108, 924				
9, 210	11, 178	14, 291	7, 921				
<b>364, 642</b> 57, 834	381, 17 <u>4</u> 50, 058	326, 891 47, 142	243, 813 84, 506				
23, 405	28, 062	27, 613	21, 819				
12, 150	17, 496	18, 468	15, 552	1			
250, 515	<b>859, 753</b>	282, 949	225, 576				
801, 613	953, 372	931, 564	692, 903				
			<del></del>			<del></del>	
		}		}	ŀ		
10, 805, 854	9, 990, 070	9, 994, 172	10, 055, 291	18, 532, 899	13, 823, 622	13, 402, 675	9, 821, 44
528, 768	1, 556, 658	746, 982	2, 125, 278	199, 260	120, 528	998, 244	1, 253, 80
10, 834, <b>62</b> 2	11, 546, 728	10, 741, 154	12, 180, 569	13, 782, 159	13, 444, 150	14, 400, 919	11, 075, 8
8, 857, 071	10, 577, 090	11, 355, 798	9, 296, 480	10, 757, 795	8, 510, 880	8, 144, 631	7, 380, 1
8, 357, 071	10, 577, 090	11, 855, 798	9, 296, 480	10, 757, 795	8, 510, 380	8, 144, 631	7, 380, 1
29, 897, 461	34, 427, 938	87, 256, 971	44, 846, 233	45, 535, 090	81, 446, 101	25, 510, 425	23, 196, 2
2, 123, 742	2, 837, 580	2, 074, 248	2, 719, 267	1, 412, 709	1, 023, 277	56, 862	1, 063, 3
32, 021, 203	37, 265, 527	89, 331, 219	47, 565, 500	46, 947, 799	82, 469, 878	25, 567, 287	24, 259, 6
2, 200, 234	2, 459, 996	1, 904, 002	1, 554, 810 ·	1, 888, 149	2, 368, 905	2, 421, 554	2, 544, 7
150, 174	105, 462	75, 816	59,778	183, 222	138, 510	194, 000	91,8
2, 350, 408	2, 565, 458	1, 979, 818	1, 614, 588	2, 071, 371	2, 507, 415	2, 615, 554	2, 686, 5
1, 723, 128	1, 459, 657	1, 545, 267	1, 765, 527				
192, 456	110, 312	93, 156	169, 356				
1, 915, 584	1, 569, 969	1, 639, 023	1, 934, 883				
	1, 990, 086	2, 305, 178	1, 758, 732				
2 552 266	2,000,000	85, 908	` 60,730				
2, <b>552, 366</b> 5, 005			1, 819, 462				·····
2, 552, 366 5, 005 2, 557, 371	1, 990, 086	2, 391, 086	1 -,,				
5, 005 <b>2, 557, 371</b>		'					
5, 005 2, 557, 371 801, 613	1, 990, 086 815, 348 138, 024	825, 130	605, 423				
5, 005 <b>2, 557, 371</b>	815, 348	'					
5, 005 2, 557, 371 801, 613	815, 348 138, 024 953, 372	825, 130 106, 434 931, 564	605, 423 87, 480 692, 903				
5, 005 2, 557, 371 801, 613	815, 348 138, 024	825, 130 106, 434	605, 423 87, 480				

# Quantities and value of principal

Articles.	1878.	1874.	1875.	1876.	1877.
EAST COAST.					
Mauritius.					
Cotton manufactures, plain . { yards dollars	8, 218, 770	3, 333, 844	2, 984, 783	1, 827, 211	572, 805
Oil cocceput (gallous	114, 896	192, 942 125, 522	132, 678 271, 970	107, 892 157, 612	83, 534 21 <b>6, 44</b> 5
( domato		83, 592 879, 201	136. 080 895, 116	86, 994 1, 010, 414	167, 670 1, 000, 534
Adollars	236, 196	244, 458	225, (18	248, 346	245, 430 30 <b>9</b> , 509, 424
Sugar	14, 083, 794	11, 266, 452 1, 324, 836	9, 521, 712 1, 096, 902		18, 586, 838 986, 998
Total merchandisedollars					
Speciedollars :	664, 362	13, 112, 280 1, 566, 864	11, 112, 890 1, 145, 016	1, 061, 910	19, 820, 470 597, 780
Total exportsdollars	16, 404, 444	14, 679, 144	12, 257, 406	15, 910, 765	20, 418, 250
Total domestic products dollars				13,726,079	18, 826, 114
Total foreign products .doliars				2, 184, 686	1, 592, 136
BOUTH COAST.					
Natal.	100 210	105 (30	100.010	A05 404	015 040
Arrowroot	6, 974	10, 818	11, 309	207, 424 18, 489	815, 840 22, 1 <b>6</b> 0
Grain, maize	8, 319		<b>246 6,</b> 804	376 9, 234	11,669
$\mathbf{Hair}_{i} \mathbf{Angora}_{i} $ pounds		11, 905 2, 760	28, 025 7, 290	31, 258 7, 144	69, 806 17, 010
Hides number dollars	128, 354	208, 005 428, 652	329, 954 529, 254	201, 698 217, 242	154, 707
Ivory pounds	49,986	27, 678 43, 740	27, 792 45, 684	29, 172 53, 460	43, 110
Ostrich feathers	1,535	387	756	747	272
Skine of all kinds Snumber	,	15, 066 883, 058	19, 926 282, 858	12, 636 141, 016	6, 804 94, 765
Snow row Spounds		427, 680 17, 816, 736	244, 458 18, 917, 280	64, 638 20, 742, 512	40, 338 20, 402, 256
Wool Spounds	6, 309, 513	773, 226 7, 888, 994	796, 068 8, 109, 447	659, 988 8, 550, 177	898, 128 10, 012, 356
All other articlesdollars		1, 647, 054 387, 843	1, 891, 998 508, 450	1, 780, 218 871, 866	1, 861, 380 252, 021
Total domestic products dollars	8, 212, 596		4, 061, 249	8, 194, 915	3, 852, 510
Total foreign productsdollars				848, 462	222, 102
Total exportsdollars				8, 543, 877	8, 574, 612
Caps Colony.					
Copper ore { tons { dollars		15, 295 1, 562, 490	13, 908 1, 207, 710	14, 413 1, 249, 992	17, 073 1, 475, 496
Feathers, ostrich	'81, 581	86, 829 1, 019, 216	49, 569 1, 481, 814	59, 941 1, 657, 260	85, 496 1, 911, 926
Fish, cured	8, 867, 243	4, 872, 814 166, 698	8, 872, 940 86, 508	8, 593, 875 115, 182	2, 324, 944 92, 840
Hair, Augora	765, 719	1, 036, 570 520, 506	1, 147, 453	1, 323, 029 554, 040	1, 483, 774 565, 704
Hides, ox and cow	53, 120	71, 162	647, 352	46, 809	56, 548
Trong j pounds	91, 457	247, 860 73, 747	193, 428 143, 682	104, 976 161, 234	155, 520 137, 660
Skins:		129, 762	293, 544	284, 796	246, 402
Gost	917, 568	1, 471, 061 944, 784	1, 300, 624 769, 824	804, 551 441, 774	579, 798
Sheep	698, 382	1, 462, 367 702, 756	1, 558, 628 718, 308	1, 550, 344 615, 276	1, 493, 000 632, 772
Wine, colonial		77, 802 77, 274	55, 519 62, 208	57, 981 58, 320	76, 292 69, 012
Wool	40, 394, 326 13, 173, 030	42, 620, 481 14, 830, 196	40, 389, 674 13, 879, 674	34, 861, 839 11, 078, 454	86, 020, 571 10, 851, 408
All other articlesdollars	1, 109, 669	874, 594	1, 108, 185	848, 312	1, 053, 413
Total merchandisedollars	18, 992, 525	20, 575, 136	20, 448, 555	17, 008, 382	17, 633, 791
					\ <del></del>

exports, including bullion and specie.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
588, 841 32, 076 253, 543 181, 278 982, 614 220, 644 292, 745, 376 16, 572, 880 1, 065, 900	869, 882 47, 628 188, 745 111, 780 849, 321 190, 026 236, 647, 856 13, 327, 578 1, 305, 623	596, 586 34, 506 233, 804 60, 750 689, 323 153, 576 247, 063, 648 15, 031, 008 1, 568, 108	395, 563 19, 440 175, 409 81, 162 845, 189 214, 326 249, 769, 586 15, 477, 156 1, 203, 953	622, 791 62, 208 131, 375 89, 360 923, 770 892, 688 264, 722, 080 17, 068, 826 1, 647, 492	487, 032 29, 160 58, 280 22, 356 552, 248 249, 818 258, 879, 040 16, 937, 586 1, 216, 126	1, 878, 041 75, 816 122, 818 42, 768 706, 988 218, 214 280, 841, 264 17, 360, 406 1, 012, 129	355, 589 18, 954 241, 145 115, 182 825, 269 236, 196 256, 931, 136 15, 163, 686 1, 048, 492
18, 072, 778 285, 284	14, 982, 635 843, 780	16, 847, 948 923, 400	16, 996, 037 862, 070	19, 210, 574 822, 218	18, 454, 546 156, 975	18, 709, 333 447, 606	16, 582, 510 279, 450
18, 358, 062	15, 826 415	17, 771, 848	17, 858, 107	19, 532, 792	18, 611, 521	19, 156, 939	16, 861, 960
16, 884, 024 1, 474, 038	13, 668, 089 2, 158, 326	15, 211, 586 2, 559, 762	15, 868, 031 1, 490, 076				
381, 360 33, 247 62, 694 111, 015 31, 590 136, 595 155, 520 87, 136 58, 806 992 21, 870 78, 361 26, 244 16, 639, 616 685, 746 12, 077, 960 2, 078, 622 252, 680	258, 832 17, 530 821 4, 622 122, 117 23, 814 159, 893 169, 614 84, 150 42, 282 1, 857 45, 684 52, 118 12, 636 6, 742, 512 277, 020 12, 029, 216 2, 021, 274 222, 359	161, 952 13, 724 1, 096 22, 016 303, 293 62, 986 232, 618 232, 794 28, 871 34, 020 1, 106 48, 114 67, 346 16, 038 26, 219, 984 1, 045, 872 15, 283, 019 2, 572, 398 281, 661	166, 992 13, 924 44 1, 851 203, 361 46, 656 210, 772 255, 150 13, 966 19, 926 1, 828 57, 034 86, 545 17, 982 19, 240, 114 837, 378 12, 578, 781 2, 191, 874 291, 890	120, 004 10, 206 485 14, 094 242, 018 63, 666 251, 252 292, 572 14, 690 24, 786 3, 247 97, 686 101, 979 24, 786 9, 276, 924 411, 642 14, 056, 126 2, 839, 604 277, 550	229, 935 16, 038 5, 696 94, 770 319, 988 73, 386 229, 835 257, 580 11, 764 26, 785 2, 596 70, 470 90, 157 25, 758 14, 233, 736 593, 406 15, 826, 915 2, 523, 312 854, 785	218, 624 16, 135 4, 070 81, 110 446, 813 93, 798 830, 169 398, 034 12, 179 23, 328 3, 563 57, 834 265, 362 71, 443 26, 399, 856 899, 586 17, 330, 981 2, 543, 724 470, 500	139, 104 11, 275 
3, 373, 772 172, 044	2, 836, 835 214, 826	4, 829, 623 249, 804	8, 732, 665 251, 664	8, 556, 592	4, 035, 290	4, 655, 491	4, 261, 567
3, 545, 816	3, 051, 161	4, 579, 427	3, 987, 329				
14, 158 1, 227, 150 81, 226 2, 876, 634 2, 594, 845 102, 546 1, 358, 385 526, 824 153, 848 300, 834. 149, 701 243, 972	15, 879 1, 879, 754 96, 582 8, 177, 468 8, 966, 881 126, 860 1, 218, 116 635, 868 104, 801 190, 046 79, 225 115, 668	17, 157 1, 492, 048 163, 665 4, 051, 296 4, 183, 420 134, 136 2, 590, 232 1, 003, 690 59, 814 124, 902 56, 779 82, 523	14, 710 1, 268, 946 193, 612 4, 845, 792 4, 407, 226 162, 324 4, 146, 128 1, 276, 122 115, 005 242, 514 50, 442 82, 620	22, 165 1, 914, 840 253, 954 5, 816, 800 4, 066, 787 127, 818 8, 776, 557 1, 230, 066 110, 582 281, 394 10, 263 19, 420	25, 398 2, 206, 926 247, 179 4, 526, 604 4, 251, 767 107, 892 4, 443, 871 1, 320, 948 142, 945 399, 006 11, 915 27, 752	22, 790 1, 977, 244 293, 411 4, 630, 190 2, 741, 966 78, 733 4, 829, 359 1, 164, 456 207, 226 514, 674 10, 487 18, 934	22, 639 1, 874, 502 251, 084 2, 874, 558 2, 906, 499 77, 274 5, 251, 801 991, 440 200, 010 626, 454 9, 244 17, 637
958, 659 471, 420 1, 576, 626 664, 848 66, 092 60, 264 32, 127, 167 9, 180, 540 1, 142, 770	687, 570 858, 182 1, 490, 875 673, 110 72, 569 68, 526 40, 067, 595 10, 481, 076 1, 289, 556	805, 697 522, 936 1, 641, 628 837, 878 61, 859 58, 806 42, 467, 962 11, 806, 884 993, 037	898, 614 48, 740 56, 862 42, 770, 244 10, 604, 034 1, 054, 725	1, 094, 628 574, 938 2, 007, 212 1, 103, 706 44, 048 50, 058 41, 689, 110 10, 022, 292 1, 507, 456	1, 158, 878 597, 780 2, 185, 489 1, 123, 632 115, 4 9 104, 490 38, 029, 405 9, 684, 522 1, 930, 497	1, 127, 714 562, 302 2, 319, 964 1, 039, 068 89, 988 77, 274 37, 270, 615 8, 481, 672 1, 569, 230	1, 202, 120 501, 552 2, 625, 216 932, 036 83, 754 70, 956 84, 432, 562 6, 930, 846 1, 816, 703
16, 797, 802	18, 495, 634	21, 107, 636	20, 488, 273	22, 238, 798	21, 430, 049	20, 113, 796	16, 213, 958

# Quantities and value of principal exports,

Articles.	1873.	1874.	1875.	1876.	1877.
SOUTH COAST—continued.					
Cape Colony—continued.					
Specie:					
Golddollars. Silverdollars.	484, 542 17, 982	1, 112, 940 30, 132	879, 660 23, 828	659, 016 7, 484	127, 814 10, <b>3</b> 5
Total speciedollars.	502, 524	1, 143, 072	902, 980	666, 500	138, 17
Total domestic products.dollars Total foreign products.dollars.	19, 495, 049	21, 718, 208	21, 851, 585	17, 674, 882 1, 152, 306	17, 771, 96 584, 65
Total exportsdollars.				18, 827, 188	18, 356, 61
WEST COAST.					
Lagos.					
Cowrlesdollars .					,
3in Sgallons				• • • • • • • • • • • • • • • • • • • •	•••••
Kola nuts				••••••••	•••••
Colm kamala Stons				84, 037	84, 57
( collars.		•		1, 613, 034 1, 992, 468	1, 742, 79 8, 304, 96
anu on { dollars .				936, 522	1, 162, 02
tum			• • • • • • • • • • • •	••••••	•••••
c nonnda	•			••••••••	•••••
Cobacco	<b></b> .			480 003	405.05
Ill other articlesdollars.				460, 091	665, 85
roducts of the colonydollars.					
Foreign productsdollars.				••••••	•••
Total exportsdollars.				8, 009, 647	8, 570, 68
Gold Coast.	+				
					241, 92
[vory and elephants' teethdollars .					15, 0 <del>6</del> 4, 12
Selm oil (gallons				3, 865, 007	
( doile o			• • • • • • • • • • • • • • • • • • • •	1, 487, 160 8, 574	1, 2 <b>64,</b> 08 8, 78
dollars				828, 536	304, 23
kins, monkey				18, 269	25, 42
dolarsdollars.				7, 435 52, 482	7, <b>4</b> 3 56, 42
Total merchandisedollars. Bullion and specie:	• • • • • • • • • • • • • • • • • • • •		••••••	1, 898, 008	1, 651, 87
Gold dustdollars.				<b>269, 98</b> 0	185, 64
Produce of the colony				2, 167, 988	1, 837, 02
Foreign products				61, 236	48, 74
Total exports				2, 229, 224	1, 880, 76
Sierra Leone.					
Benni seeddollars Cola nutsdollars			•••••	21,870	29, 16
Cotton goods (no account) ( dollars			******	101, 088 170, 586	86, 02 208, 49
Cotton goods (re-exports) { dollars pounds		••••	•••••	2, 120, 132	2, 468, 76
4 1 11				102, 546 94, 284	93, 79 100, <b>6</b> 2
pounds		]		579, 098	489, 05
Gum copaldollars Hidesdollars				53, 460 17, 982	60, 75 62, 20
Palm kernelsdollars	- <b></b>		<b></b>	423, 306	

1878.	1879.	1880.	1881.	1882.	1863.	1884.	1885.
371, 304 501 871, 805 17, 169, 607 1, 068, 714 18, 238, 321	1, 272, 884 637 1, 273, 471 19, 769, 105 1, 958, 580 21, 727, 685	711, 892 8, 096 714, 488 21, 822, 124 1, 070, 172 22, 892, 296	1, 012, 824 68 1, 012, 892 21, 501, 165 1, 380, 726 22, 891, 891	248, 832 17, 496 266, 328 22, 505, 126	2, 061, 612 1, 652 2, 063, 264 23, 493, 313	400, 950 17, 204 418, 154 20, 531, 950	1, 806, 462 129, 746 1, 936, 208 18, 150, 166
81, 218 1, 545, 480 1, 570, 668 676, 026 321, 140 143, 370 96, 714 289, 245	49, 086 213, 017 117, 126 5, 546 29, 981 1, 552, 004 2, 469, 418 1, 014, 768 698, 721 199, 260 698, 540 68, 040 174, 487	39, 852 113, 027 54, 432 7, 290 33, 188 1, 682, 046 1, 526, 423 647, 352 125, 114 47, 142 626, 981 59, 292 264, 433	45, 198- 98, 244 88, 526 8, 748 23, 297 1, 076, 976 1, 807, 296 716, 364 262, 611 83, 592 559, 686 56, 376 209, 854				
2, 805, 858	2, 579, 688 600, 629 8, 180, 317	2, 858, 698 448, 141 2, 801, 839	1, 845, 342 890, 292 2, 235, 634				
11, 294 514 2, 522 8, 899, 972 1, 424, 952 5, 881 236, 682 23, 828 6, 464 21, 721	3, 766 4, 860 8, 746, 471 1, 364, 202 6, 963 257, 866 60, 314 14, 580 27, 630	128, 468 9, 428 2, 634 8, 920, 049 1, 492, 406 12, 802 495, 234 88, 276 20, 412 41, 838	226, 704 19, 634 5, 832 8, 107, 737 1, 120, 716 7, 044 231, 336 60, 029 24, 300 17, 773				
1, 692, 855 222, 729	1, 672, 904 270, 688	2, 061, 952 159, 894	1, 419, 591 219, 672				
1, 915, 584 24, 800 1, 939, 884	1, 943, 592 140, 429 2, 084, 021	2, 221, 846 120, 956 2, 342, 802	1, 639, 263 175, 024 1, 814, 287				
57, 834 12-; 930 276, 674 2, 164, 533 62, 694 166, 212 437, 918 42, 867 55, 404 547, 772	88, 048 116, 154 185, 652 49, 086 302, 778 567, 952 57, 348 66, 096 554, 040	28, 674 118, 584 143, 870 1, 881, 756 54, 918 101, 088 768, 280 88, 452 69, 984 520, 992	17, 982 132, 192 157, 950 998, 269 31, 104 68, 526 614, 872 48, 600 52, 488 509, 814				

### BBFT19號 AFBICA-Continued.

## Quantities and value of principal exports,

Articles.		1873.	1874.	1875.	187 <b>6</b> .	1877.
WEST COAST—continu	ied.					
Sierra Leone—Contin	ued.	,				
Palm oil	gallons		•••••		268, 573 129, 788	348, 496 190, 513
Rubber			•••••			
Rum	gallons		•••••		37, 736	33, 969 22, 356
Tobacco, unmanufactured	pounds				822, 992 57, 848	380, 801 64, 152
All other articles					242, 503	263, 174
Total merchandise Gold bullion	.dollars		•••••		1, <b>442, 949</b> 884	1, 88 <b>7, 406</b> 874
Domestic products			•		104, 004 1, 339, 829	95, 742 1, 792, 538
Total exports			•••••		1, 443, 833	1, 888, 280
Gambia.						
Ground-nute	tons				11, 184 339, 714	17, 878 542, 376
Hides	number			,	18, <b>6</b> 01 17, 982	17, 953 17, 496
Wax, cleau	tons				67 85, 478	53 27, 702
All other articles					2, 979	5, 234
Total experts	.dollars	•••••			396, 153	592, 808
Domestic products Foreign products	dollars					

647, 265	1878.	1879.	1870.	1871.	1872.	1873.	1874.	1875.
179, 334     200, 232     129, 818     172, 044       379, 276     829, 636     956, 594       102, 546     304, 236     329, 904       45, 406     75, 973     47, 764     14, 568       29, 160     45, 198     26, 438     8, 262       716, 517     396, 900     334, 491     201, 786       89, 424     55, 404     43, 254     83, 048       268, 802     126, 414     140, 542     116, 209       1, 903, 167     1, 893, 996     1, 770, 350     1, 678, 213       291     6, 658     58, 912     99, 876       63, 668     50, 544     58, 320     34, 020       1, 803, 704     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 634     1, 829, 292     1, 778, 689       26, 877     23, 637     15, 483     18, 994       933, 120     898, 866     537, 516     576, 882       15, 036     29, 660     18, 468     15, 273       15, 036     29, 660     18, 468     15, 273       15, 036     29, 660     18, 468     15, 206       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744		•	•					
179, 334       200, 232       129, 818       172, 044         379, 276       829, 636       956, 594         102, 546       304, 236       329, 904         45, 406       75, 973       47, 764       14, 568         29, 160       45, 198       26, 438       8, 262         716, 517       396, 090       334, 491       201, 786         89, 424       55, 404       43, 254       83, 048         268, 802       126, 414       140, 542       116, 209         1, 903, 167       1, 893, 996       1, 770, 350       1, 678, 213         293       6, 658       58, 912       99, 876         63, 086       50, 544       58, 320       34, 020         1, 839, 734       1, 850, 110       1, 770, 972       1, 744, 069         1, 903, 400       1, 900, 654       1, 829, 292       1, 778, 689         26, 877       25, 637       15, 483       18, 994         933, 120       898, 806       537, 516       576, 882         15, 380       30, 608       18, 708       15, 273         15, 036       29, 660       18, 468       15, 086         24, 786       23, 816       21, 384       11, 858 <td< td=""><td>647, 265</td><td>410, 175</td><td>292, 306</td><td>391, 272</td><td></td><td></td><td></td><td></td></td<>	647, 265	410, 175	292, 306	391, 272				
370, 276								
45, 406       75, 973       47, 764       14, 568         29, 160       43, 198       20, 438       8, 262         716, 517       396, 900       334, 491       201, 786         89, 424       55, 404       43, 254       33, 048         268, 862       126, 414       140, 542       116, 209         1, 903, 167       1, 893, 996       1, 770, 350       1, 678, 213         293       6, 658       58, 912       99, 876         63, 666       50, 544       58, 320       34, 020         1, 839, 734       1, 850, 110       1, 770, 972       1, 744, 069         1, 903, 400       1, 900, 654       1, 829, 292       1, 778, 689             26, 877       25, 637       15, 483       18, 994         1, 903, 400       1, 900, 654       1, 829, 292       1, 778, 689             26, 877       25, 637       15, 483       18, 994         15, 380       30, 668       18, 798       15, 273         15, 036       29, 660       18, 468       15, 066         46       46       45       31         24, 786       23, 816       21, 384       11, 858         19, 926								
29, 160     45, 198     26, 438     8, 262       716, 517     396, 000     334, 491     201, 786       89, 424     55, 404     43, 254     33, 048       268, 862     126, 414     140, 542     116, 209       1, 903, 167     1, 893, 996     1, 770, 350     1, 678, 213       293     6, 658     58, 912     99, 876       63, 666     50, 544     58, 320     34, 020       1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     25, 637     15, 483     18, 994       933, 120     899, 806     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 056     29, 660     18, 468     15, 066       46     46     45     31       24, 786     23, 816     21, 384     11, 838       19, 926     64, 441     96, 114     78, 744		102, 546	304, 236	329, 994				
716, 517       396, 960       334, 491       201, 786         89, 424       55, 404       43, 254       33, 048         268, 862       126, 414       140, 542       116, 209         1, 903, 167       1, 893, 996       1, 770, 350       1, 678, 213         233       50, 544       58, 912       99, 876         63, 666       50, 544       1, 850, 110       1, 770, 972       1, 744, 069         1, 903, 400       1, 900, 654       1, 829, 292       1, 778, 689         26, 877       25, 637       15, 483       18, 904         933, 120       839, 866       537, 516       576, 882         15, 380       30, 608       18, 798       15, 273         15, 0.66       46       46       45         24, 786       23, 816       21, 384       11, 834         19, 926       64, 441       96, 114       78, 744								• • • • • • • • • • • • • • • • • • •
89, 424     55, 404     43, 254     33, 048        1, 903, 167     1, 693, 996     1, 770, 350     1, 678, 213        233     6, 658     50, 544     58, 320     34, 020        1, 809, 734     1, 850, 110     1, 770, 972     1, 744, 069        1, 903, 400     1, 900, 654     1, 829, 202     1, 778, 689       26, 877     25, 637     15, 483     18, 994       933, 120     898, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 663     18, 468     15, 066       46     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744						- <i>-</i>		• • • • • • • • • • • • • • • • • • •
268, 862     126, 414     140, 542     116, 209       1, 903, 167     1, 893, 996     1, 770, 350     1, 678, 213       63, 666     50, 544     58, 320     34, 020       1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     23, 637     15, 483     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 660     18, 468     15, 086       46     46     45     31       24, 786     23, 816     21, 384     11, 838       19, 926     64, 441     96, 114     78, 744								•••••
1, 903, 167     1, 893, 996     1, 770, 350     1, 678, 213       63, 666     50, 544     58, 320     34, 020       1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     23, 637     15, 483     576, 882       15, 380     30, 668     18, 798     15, 273       15, 046     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744							• • • • • • • • • • • • • • • • • • • •	
233     6, 658     58, 912     99, 876       63, 686     50, 544     58, 320     34, 020       1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     25, 637     15, 483     18, 994       933, 120     898, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 0.66     29, 660     18, 468     15, 066       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744	200, 002	120, 919	140, 042	110, 208				
293     6, 658     58, 912     99, 876       63, 666     50, 544     58, 320     34, 020       1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     25, 637     15, 483     18, 994       933, 120     899, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 660     18, 468     15, 086       46     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744	1 903 167	1 693 996	1 770 350	1 678 213				
63, 666     50, 544     58, 320     34, 020       1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     25, 637     15, 483     18, 994       933, 120     839, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 0.66     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744								
1, 839, 734     1, 850, 110     1, 770, 972     1, 744, 069       1, 903, 400     1, 900, 654     1, 829, 292     1, 778, 689       26, 877     25, 637     15, 483     18, 994       933, 120     889, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 660     18, 468     15, 066       46     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744		•, •••				=====		
26, 877     25, 637     15, 483     18, 994       933, 120     899, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 660     18, 468     15, 066       46     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744	63, 666	50, 544		34, 020		l		
26, 877     25, 637     15, 483     18, 994       933, 120     839, 866     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 663     18, 468     15, 066       46     46     45     31       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744	1, 839, 734	1, 850, 110	1, 770, 972	1, 744, 069				
933, 120     899, 868     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 663     18, 468     15, 066       46     46     45     81       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     98, 114     78, 744	1, 903, 400	1, 900, 654	1,829 292	1, 778, 689				
933, 120     899, 868     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 663     18, 468     15, 066       46     46     45     81       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     98, 114     78, 744			=====				<u> </u>	<u> </u>
933, 120     899, 868     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 663     18, 468     15, 066       46     46     45     81       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     98, 114     78, 744	Ì		.					
933, 120     899, 868     537, 516     576, 882       15, 380     30, 668     18, 798     15, 273       15, 036     29, 663     18, 468     15, 066       46     46     45     81       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744	26, 877	25, 637	15, 483	18, 994				
15, 380     30, 668     18, 798     15, 273       15, 046     29, 664     18, 468     15, 066       46     46     45     81       24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744			537, 516					
46 46 45 81								
24, 786     23, 816     21, 384     11, 858       19, 926     64, 441     96, 114     78, 744								
19, 926 64, 441 96, 114 78, 744								
							•••••	•••••
992, 898 1, 007, 789 675, 482 682, 550	19, 926	64, 441	98, 114	78, 744				• • • • • • • • • • • • • • • • • • • •
	992, 898	1, 007, 789	675, 482	682, 550	••••	•••••	• • • • • • • • • •	•••••
27, 216 685 3, 446 29	97 91R	223	2 448	90				
965, 682 1, 007, 104 672, 036 682, 521								

ECYPT.

Value of the principal
[Goods in transit included

Articles.	1873.	1874.	. 1875.	1876.	1877.
	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.
Boots and shoes	••••••	465, 500 802, <b>526</b>	455, 651 316, 393	859, 219 809, 141	382, 641 295, 176
Canvas bags	•••••	283, 632	<b>353,</b> 143 <b>92,</b> 071	110, 250 55, 615	901, 253 <b>32</b> , 242
Chemicals and medicines		835, 160 8, 883, 613	409, 346 4, 631, 803	350, <b>69</b> 3 2, 779, 804	287, 287 <b>3,</b> 172, 554
Copper	•••••	848, 576 6, 352, 801	316, 197 7, 501, 454	246, 678 6, 964, 672	185, 273 <b>6</b> , 150, 578
Flour		495, 880	932, 862	267, 736 413, 418	109, 221 595, 595
Iron, and manufactures of		841, 232 359, 285	551, 084 205, <b>506</b>	710, 786 <b>338, 802</b>	518, 420 171, 500
Oil, petroleum		327, 516 408, 268	282, 436 522, 198	197, 715 284, <b>6</b> 88	501, 335 802, 232
Provisions		1, 146, 404 362, 110	1, 18 <b>9</b> , 181 451, 045	915, 614 280, 280	221, 360 319, 186
Sugar, refined		479, 220 2, 589, 405	510, 564 1. 893, 487	<b>493</b> , 087 1, 232, 438	678, 944 1, 032, 332
Wines and spirits		578, 935 788, 214	685, 628 951, 884	564, 970 1, 112, 545	474, 614 673, 886
Wool manufactures		1, 044, 347 604, 758	661, 533 661, 353	632, 345 632, 845	<b>651, 651</b> 671, <b>651</b>
All other articles		2, 949, 244	4, 021, 139	2, 587, 892	3, 388, 926
Total imports	•••••	24, 846, 626	27, 535, 403	20, 840, 631	22, 017, 866

# Value of the principal articles

Articles.	1873. 1874.	1873.	<b>1876</b> .	1877.
_	Pollars. Dollars. 59, 29	1	Dollare. 428, 162	Dollars. 206, 192
Barley Beans	l		4, 718, 812	4, 558, 815
Cotton	47, 413, 77 6, 423, 55		42, 937, 279 7, 188, 714	85, 077, <b>3</b> 76 7, 966, 077
Elephants' tusks			155, 028 61, 108	<b>8</b> 01, <b>9</b> 87 <b>71</b> , 197
GumsHides and skins	1, 814, 52 579, 87		861, 518 554, 337	827, 120 614, 950
MaizeOstrich feathers			174, <b>63</b> 6 376, 712	73, 457 <b>3</b> 95, 185
Rice Sugar			624, 211 2, 222, 984	824, 524 4, 587, 821
Wheat	708, 68 871, 42		4, 034, 170 516, 215	4, 736, 781 429, 044
All other articles	910, 22	1, 847, 787	1, 657, 080	1, 714, 601
Total exports	65, 775, 00	3 65, 333, 317	66, 450, 861	62, 476, 127

EGYPT.

articles imported.

previous to the year 1884.]

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	<b>Dollars.</b> 587, 508 241, 619	Dollars.	Dollars.	Dollars.	Dollars.
382, 445	452, 711	527, 465		476, 427	643, 518	554, £74	637, 637
266, 908	801, 693	852, 506		228, 487	259, 259	274, 272	810, 660
919, 632	315, 668	612, 001	432, 033	285, 082	401, 947	543, 753	535, <b>76</b> 6
86, 407	1, 038, 996	1, 493, 373	1, 293, 159	1, 145, 863	1, 067, 759	1, 318, 247	1, 076, 187
269, 598	427, 084	499, 917	<b>367</b> , 108	295, 274	424, 039	204, 477	2, 208, 18
3, 257, 569	<b>2,</b> 752, 722	3, 202, 983	<b>4, 266, 234</b>	3, 677, 499	4, 483, 598	2, 886, 741	
163, 028	242, 011	494, 812	516, 725	228, 536	313, 208	505, 092	619, 413
<b>5, 509, 95</b> 2	6, 748, 427	8, 602, 193	7, 716, 716	5, 763, 184	9, 231, 039	7, 830, 837	8, 119, 496
190, 316	116, 473	144, 305	208, 838	841, 285	258, 877	811, 014	613, 62
1, 345, 001	829, 628	1, 048, 551	1, 217, 650	1, 011, 605	1, 640, 961	1, 867, 051	1, 211, 386
531, 062	250, 488	668, 487	723, 238	503, 879	472, 311	1, 144, 444	910, 32:
266, 511	827, 663	574, 829	876, 071	807, 226	696, 094	780, 597	789, 19
423, 409	442, 960	857, 945	702, 660	558, 504	472, 262	707, 364	770, 03:
411, 551	674, 436	730, 590	426, 323	574, 819	590, 428	<b>694, 4</b> 28	822, 31:
637, 892	1, 177, 764	1, 078, 098	1, 522, 185	1, <b>526, 605</b>	876, 061	1, 552, 124	1, 186, 45,
353, 094	760, 037	1, 381, 786	1, 226, 421	491, 872	685, 951	551, 985	574, 470
771, 269	826, 434	961, 478	1, 164, 534	874, 650	835, 205	708, 197	<b>534, 69</b> 6
1, 083, 239	874, 454	939, 034	802, 865	721, 084	885, 620	<b>901, 1</b> 53	1 <b>, 028, 8</b> 08
572, 663	712, 019	753, 834	1, 031, 785	998, 130	1, 272, 677	1, 224, 559	1, <b>302</b> , 278
786, 548	918, 554	1, 470, 196	1, 236, 804	698, 397	1, 218, 191	1, 490, 522	1, 733, 081
531, 062	657, 473	928, 942	927, 345	731, 962	910, 898	878, 035	1, 731, 317
531, 062	657, 473	928, 942	727, 227	731, 962	940, 898	877, 835	
4, 497, 558	10, 092, 620	13, 041, 996	18, 158, 251	10, 996, 041	18, 519, 906	14, 169, 899	18, 855, 60
<b>3</b> , 737, 266	81, 497, 788	40, 790, 295	41, 593, 299	83, 662, 875	42, 125, 202	40, 983, 600	45, 070, 93

## of domestic produce-exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
8, 577	404, 250	850, 938	173, 852	55, 419	119, 315	838, 492	50, 029
1, 076, 922	8, 735, 319	8, 235, 858	8, 239, 978	2, 730, 280	4, 422, 838	8, 539, 511	8, 413, 683
<b>24</b> , 517, 199	89, 782, 365	36, 592, 073	43, 598, 291	<b>36</b> , 191, 351	36, 58?, 322	40, 364, 975	87, 764, 861
<b>4</b> , <b>949</b> , 784	6, 452, 614	7, 580, 594	7, 882, 291	<b>5</b> , 690, 958	8, 812, 997	7, 174, 090	7, 052, 630
135, 289	87, 975	109, 270	3, 822	90, 503	633, 874	73, 647	1, 180
24, 157	<b>432,</b> 964	7 <b>6</b> 5, 282	193, 893	61, 691	42, 973	79, 037	83, 026
932, 025	1, 093, 925	1, 153, 799	1, 241, 562	591, 146	681, 247	631, 855	480, 053
545, 272	558, 602	498, 291	681, 639	657, 827	609, 609	570, 155	845, 111
<b>6</b> , 90 <b>9</b>	204, 183	616, 714	183, 829	785, 862	205, 604	1, 144, 101	134, 150
<b>535</b> , 031	534, 686	502, 848	820, 901	812, 767	843, 049	97, 706	34, 251
790, 566	646, 359	1, 006, 852	718, 830	574, 084	594, 664	673, 866	635, 628
4, 008, 886	8, 825, 581	<b>3, 633, 69</b> 3	1, 482, 809	<b>2, 627, 62</b> 4	1, 932, 148	1, 842, 478	2, 838, 619
451, 241	6, 597, 368	5, 161, 415	2, 270, 121	408, 072	2, 670, 843	2, 151, 845	731, 913
258, 477	230, 398	270, 872	247, 401	222, 362	890, 726	244, 114	<b>278, 9</b> 08
1, 426, 837	5, 715, 158	<b>6, 59</b> 0, <b>302</b>	2, 939, 804	2, 869, 089	2, 976, 752	8, 203,737	8, 750, 892
39, 676, 672	69, 746, 747	68, 068, 301	64, 573, 528	53, 868, 538	60, 518, 461	62, 129, 109	57, 543, 934

#### AUSTRALASIA.

## Quantities and value of principal im-

Articles.	1873.	1874.	1875.	1876.	1877.
NEW SOUTH WALES.					
Apparel and alopsdollars	1, 711, 692	1, 632, 960	1, 970, 244	2, 499, 984	1, 934, 280
Poor and ale (gallons	1, 783, 109	1, 744, 806	1, 349, 135	1, 324, 625	1, 422, 647
. Counda		1, 261, 656 3, 558, 139	1, <b>0</b> 89, 126 2, 410, 392	<b>97</b> 0, 056 1, 660, 678	1, 125, 576 3, 194, 512
dollars	300, 348	616, 734	293, 544	<b>283, 338</b>	548, 094
Copper ore		25, 962 953, 056	27, 256 1, 107, 108	32, 797 1, 161, 054	29, 336 1, 076, 490
Frain:	' '	}		Ì	
Wheat		740, 019 1, 043, 928	1, 089, 772 1, 165, 428	918, <b>0</b> 05 1, 093, 986	828, 526 1, 318, 032
rlong \$tons	18, 819	19, 133	28, 492	26, 392	23, 516
/ donars		1, 180, 008	1, 521, 666	1, 46t, 748	1, 648, 026
Rice tons dollars		5, 367 436, 428	4, 117 811, 040	2, 836 204, 606	3, 952 <b>337, 77</b> 0
Hardwaredollars Iron and steel, and manufactures of, dol-	1, 023, 030	1, 074, 546	1, 684, 476	1, 629, 072	1, 636, 362
lars	1, 366, 146 352, 350	2, 007, 666 607, 014	3, <b>998</b> , 250 680, 400	1, 940, 112 674, 082	4, <b>363</b> , 308 1, <b>29</b> 3, 246
Leather goods (boots and shoes), dol-	1.003, 104	1, 133, 352	1, 261, 170	1, 243, 188	1, 516, 208
Linens, drapery, and haberdashery, *dol-	İ	1	1	Ì	İ
larsdollarsdollars	8, 017, 056 271, 674				. , , .
Railway railsdollars	Includ		and ateel an		
Spirits and wines:  Spands Spirits and wines:	456, 637	542, 374	421, 561	544, 944	579, 110
Brandy		1, 060, 452	850, 3 12	1, 162, 512	1, 456, 056
Rum gailons		240, 849	252, 613	233, 044	318, 110
( donato		200, 718 212, 819	202, 662 300, 300	202, 662 205, 609	
Gin and geneva gallons	272, 160	240, 084	330, 620	243, 972	349, <b>434</b>
Whisky		43, 075 74, 814	61, 258 95, 742	72, 012 130, 734	122, 572 234, 738
Wine	325, 709	210, 028 340, 200	177, 388 335, 340	213, 634 446, 634	302, 605 622, 5 <b>6</b> 6
•			<u> </u>		
$\textbf{Total} \qquad \qquad \left\{ \begin{array}{l} \textbf{gallons} \dots \\ \textbf{dollars} \dots \end{array} \right.$			1, 213, 120 1, 820, 696	-1, 269, 343 2, 186, 514	1, 637, 965 2, 962, 170
Stationery:					
Booksdollars		542, 862	599, 238	825, 228	
Påperdollars ( tons		361, 098 33, 045	562, 302 22, 059	557, 442 23, 379	
dollars dollars	3, 424, 356	2, 845, 530	2, 455, 272	2, 618, 082	2, 774, 08
rea		5, 168, 267 1, 602, 825	5, 215, 455 1, 625, 824	4, 599, 499 1, 534, 802	6, 088, 326 2, 0 <b>1</b> 3, <b>4</b> 98
Pimber, &cdoll <b>ars</b> Pob <b>acco:</b>	265, 356	422, 820	278, 478	400, 950	712, 476
Manufactured		765, 690 235, 710	418, 016 134, 622	490, 614 151, <b>63</b> 2	653, 751 229, 878
Unmanufactured   j pounds	732, 923	2, 115, 628	715, 720	41 4, 394	1, 610, 980
dollars	149, 202	447, 120	176, 904	100, 116	356, 236
Cigars	92, 199 142, 398	78, 351 124, 902	54, 886 87, 966	129, 184 222, 102	114, 253 189, 054
Wool Spounds	9, 870, 191	7, 823, 899	8, 857, 279	6, 765, 996	1, 646, 262
All other articlesdollars	2, 888, 784 15, 708, 604	2, 097, 576 18, 769, 313	2, 147, 148 25, 509, 492	1, 612, 062 29, 317, 700	1, 792, 854 26, 398, 589
Total imports of merchandisedollars	46, 173, 028	48, 260, 772	58, 426, 566	60, 182, 558	65, 129, 265
<del>3</del> old:			•		
Bullion Sounces	234, 545	341, 458 8 225 010	847, 068 6 590 704	<b>303, 565</b>	814, 564
Coin	4, 306, 446 871, 804	6, 335, 010 291, 600	6, 580, 794 535, 984	5, 717, 30 <u>4</u> 539, 946	5, 339, 196 516, 618
Total golddollars	4, 677, 750	6, 626, 610	7, 136, 778	6, 257, 250	5, 858, 811
Grand total merchandise and golddollars	50, 850, 778	54, 887, 382	65, 563, 344	66, 449, 808	70, 988, 076
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<sup>\*</sup>Including woolens, hosiery, gloves, silks, blankets, cottons, haberdashery, hats, bonnets, umbrellas, &c.

AUSTRALASIA.

ports, including intercolonial trade.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
3, 126, 438 1, 103, 514	2, 237, 058 1, 393, 258	1, 324, 836 1, 263, 827	1, 553, 256 1, 073, 842	1, 735, 506 1, 323, 850	1, 644, 628 1, 591, 113	4, 075, 596 1, 714, 851	4, 608, 788 2, 099, 557
<b>982, 69</b> 2	1, 194, 902	881, 034	950, 616	1, 311, 714	1, 412, 316	1, 566, 864	1, 893, 942
1, 788, 882	2, 296, 312	1, 303, 982	2, 877, 471	8, 024, 226	2, 261, 839	5, 078, 982	5, 160, 191
352, 836	<b>363, 528</b>	183, 222	388, 800	887, 828	339, 714	825, 714	762, 048
27, 36 <i>2</i> 906, 876	19, 405 653, 184	19, 167 <b>69</b> 3, 522	23, 853 863, 622	29, 268 947, 214	20, 077 846, 12 <b>6</b>	25, 515 1, 162, 512	21, 594 967, 043
780, 694	442, 842	422, 475	<b>26</b> 0, 118	698, 518	247, 090	4 <del>6</del> 9, 785	545, 423
1, 439, 068 36, 491	530, 712 30, 982	458, 298 40, 865	284, 796 36, 352	935, 550 53, 885	295, 002 44, 053	420, 3 <b>9</b> 0 54, 470	464, 130 58, 762
1, 997, 460	1, 515, 834	1, 905, 120	1, 888, 110	8, 127, 410	2, 325, 510	2, 520, 396	2, 548, 098
6, 687	5, 181	5,081	7, 482	7, 129	5, 557	8, 893	7, 51
437, 400	375, 678	<b>392, 688</b>	571, 050	492, 804	880, 052	618, 832	448, 09
2, 246, 290	2, 310, 444	1, 811, 808	2, 636, 064	8, 585, 708	<b>3,</b> 856, <b>896</b>	8, 484, 134	8, 154, 626
3, 418, 524 930, 204	2, 590, 380 1, 112, 454	8, 004, 452 798, 012	4, 291, 866 1, 358, 370	5, 574, 906 1, 889, 568	4, 750, 650 2, 477, 628	5, 040, 792 2, 806, 164	6, 262, 110 2, 358, 558
1, 442, 448	1, 984, 824	1, 823, 472	2, 135, 834	3, 089, 988	2, 777, 004	2, 827, 548	3, 664, 514
13, 204, 620	12, 213, 180	13, 085, 550	16, 573, 086	19, 863, 792	18, 839, 304	15, 635, 592	16, 567, 254
79, 701	52, 002	44, 226	71, 442	129, 762	113, 238	124, 416	135, 594
427, 194	333, 396	581, 256	972, 972	1, 054, 620	322, 218	927, 288	<b>735, 31</b> 8
502, 607	515, 212	508, 102	546, 735	474, 938	444, 134	472, 058	512, 59
1, 226, 178	1, 313, 172	1, 183, 896	1, 293, 246	1, 207, 710	1, 203, 822	1, 283, 526	1, 276, 72:
251, 044 239, 112	245, 466 225, 990	253, 092 220, 158	267, 139 260, 010	302, 530 370, 872	293, 875 303, 264	<b>336, 872</b> 346, 032	263, 363 263, 413
187, 196	282, 702	235, 997	235, 026	255, 046	218, 855	2 <b>6</b> 9, 506	212, 04:
234, 738	337, 284	270, 216	258, 552	315, 414	316, 886	392, 688	309, 58
156, 667	202, 717		358, 735	357, 857	293, 285	314, 883	378, <b>46</b> 0
271, 188	400, 464	<b>858, 668</b>	684, 774	681, 872	<b>589, 032</b>	707, 130	687, 20
265, 691 544, 806	201, 647 462, 186	178, 401 360, 12 <b>6</b>	218, 728 <b>499, 6</b> 08	246, 302 501, 552	267, <b>637</b> 681, 838	208, 241 608, 472	242, 50: 665, 38 <sub>:</sub>
1, 362, 605 2, 516, 022	1, 447, 744 2, 739, 096	1, 369, 634 2, 393, 001	1, 626, 363 2, 996, 190	1, 636, 493 3, 076, 420	1, 517, 786 3, 094, 862	1, 601, 060 3, 337, 848	1, <b>6</b> 05, <b>9</b> 67 3, <b>2</b> 02, <b>2</b> 5
						=======================================	سد حدد
875, 772 501, 552	849, 5?8 741, 150	<b>696, 924</b> <b>6</b> 68, <b>25</b> 0	775, 170 857, 304	919, 02 <b>6</b> 878, 202	906, F76 736, 776	1, 062, 396 1, 012, 338	1, 055, 59. 1, 205, 36
30, 204	38, 619	21, 742	29, 879	35, 740	30, 280	36, 937	30, 09
4, 388, 393	4, 057, 614	2, 623, 914	3, 186, 702	4, 074, 138	8, 612, 294	4, 098, 924	2, 430, 480
5, 370, 408	7, 680, 000	7, 460, 540	8, 276, 930	7, 588, 709	5, 782, 011	8, 437, 981	8, 641, 670
1, 763, 694	<b>2,</b> 335, <b>23</b> 0	2, 331, 342	2, 651, 130 1, <b>136</b> , 75 <b>4</b>	2, 259, 414 2, 265, 394	1, 677, 672 2, 150, 064	2, 641, 410	2, 258, 000
961, 308	1, 132, 380	937, 494			·	2, 049, 462	1, 983, 85
1, 030, 063	755, 049	525, 539 153 578	613, 868 993 074	928, 152	949, 448 291, 114	765, 447	955, 056
894, 146 2, 448, 104	250, 200 202, 589	153, 576 477, 610	223, 074 1, 035, 243	314, 928 1, 222, 594	856, 066	289, 6 <b>56</b> 871, 416	335, 82 516, 95
109, 836	36, 936	84, 564	181, 278	222, 588	170, 586	173, 502	118, 09
184, 149	122, 859	107, 103	<b>250, 96</b> 0	220, 623	336, 237	298, 531	317, 99
<b>2</b> 55, 150	162, 324	152, 604	327, 564	<b>337, 77</b> 0	432, 540	320, 760	371, 80
5, 449, 582	6, 454, 370	10, 945, 936	8, 096, 141	8, 316, 114	16, 765, 446	11, 404, 239	12, 798, 95
1, 887, 044 23, <b>329</b> , 313	1, 518, 750 21, 560, 373	2, 525, 742 23, 651, 401	1, 728, 216 30, 152, <b>2</b> 29	1, 894, 428 87, 576, 350	3, 234, 816 39, 303, 079	2, 366, 334 43, 689, 456	2, 639, 43 46, 411, 70
66, 073, 984	62, 871, 147	62, 212, 374	78, 755, 595	97, 945, 038	96, 090, 465	103, 072, 824	108, 580, 98
273, 999	271, 790	283, 118	313, 539	253, <b>984</b>	201, 115	349, 486	293, 08
5, 126, 814	<b>5,</b> 185, <b>6</b> 20	5, 447, 574	5, 824, 710	4, 757, 454	3, 665, 895	6, 366, 114	5, 380, 84
375, 910	949, 644	137, 052	28, 893	728, 654	2, 109, 726	1, 499, 798	1, 787, 43
5, 702, 724	6, 135, 264	5, 584, 626	5, 853, 603	5, 481, 108	5, 775, 621	7, 865, 910	7, 168, 270
71, 776, 708	69, 006, 411	67, 797, 000	84, 609, 198	103, 426, 146	101, 866, 086	110, 938, 734	113, 749, 25
		=======		<del></del>	· <del></del>		

### AUSTRALASIA—Continued.

## Quantities and values of principal imports,

			,		
Articles.	1873.	1874.	1875.	1876.	1877.
VICTORIA.					
Apparel and hopesdollars	1, 420, 578	1, 464, 804	1, 678, 858	1, 477, 440	1, 684, 962
Beer, cider, and perry { gallons dollars	1, 028, 371 1, 019, 628	1, 804, 632 1, 433, 700	841, 853 844, <b>66</b> 8	753, 974 768, 852	960, 667 977, 832
	1 7 7 7 7 7 1 7	1, 011, 852	984, 150	972,000	1, 037, 050
Candles	2, 391, 400	3, 785, 600	2, 453, 040	743, 680	1, 167, 040
dollars	521, 478 206, 577	740, 178 224, 749	445, 176 236, 301	138, 024 248, 087	137, 052 277, 400
Coal	1, 193, 616	1, 188, 756	1, 279, 638	1, 348, 650	1, 581, 444
Cottonsdollars	3, 101, 166	3, 367, 008	2, 794, 986	3, 152, 682	3, 723, 732
Flourdollars Furnituredollars	12, <b>636</b> 171, 558	38, 686 232, 794	21, 384 190, 512	<b>39, 366</b> <b>263, 89</b> 8	16, 038 204, 120
Government stores, including railway	Ĭ		1	İ	ļ
railsdollarsdollarsdollars	833, 004 3, 023, 892	1, 614, 978 2, 754, 162	689, 721 2, 996, 676	680, 886 2, 902, 392	842, 238 2, 453, 272
Haberdasherydollars	1, 648, 026	1, 797, 714	1, 758, 348	987, 552	1, 138, 212
Hardware and ironmongerydollars	597, 548	426, 222	272, 160	419, 418	561, 816
Hats, caps, and bonnetsdollars	513, 216	583, 200	595, 836	631, 314	672, 138
Hosiery and glovesdollars Iron and steeldollars	956, 934 2, 405, 700	1, 014, 768 2, 742, 012	923, 400 3, 562, 580	963, 252 8, 175, 524	1, 128, 026 3, 443, 310
Leather and leather waredollars		581, 742	596, 350	585, 144	689, 634
Linens dollars	270, 216	253, 206	236, 196	226, 476	182, 250
Live stock	755, 284	868, 627	979, 409	1, 107, 468	853, 261
Machinerydollars	4, 096, 980	5, 727, 996	<b>5, 568, 588</b>	5, 819, 896	4, 978, 584
machinery	478, 710 1, 962, 356	505, 440 2, 208, 202	547, 722 1, 703, 706	452, 952 1, 201, 676	510, <b>300</b> 1, 8 <b>6</b> 2, 767
Oil of all kinds	1, 233, 954	1, 242, 702	1, 139, 184	719, 766	1, 171, 260
Silks, and manufactures of $\dots$ dollars	1, 423, 980	1, 572, 696	1, 126, 548	1, 256, 510	1, 258, 740
Spirits of all kinds { gallons	1, 223, 523	1, 401, 217	1, 154, 636	1, 374, 612	1, 493, 680
Spirits of all kinds	1, 969, 758 348, 432	2, 516, 022 860, 126	1, 823, 958 343, 116	2, 465, 478 283, 338	<b>2</b> , 818, 800 298, <b>890</b>
( manufa	94, 141, 040	93, 816, 016	88, 989, 488	89, 126, 128	62, 147, 232
dollars	6, 340, 356	5, 253, 660	5, 055, 634	5, 278, 932	8, 737, 340
Tea	10, 585, 795	7, 118, 355	9, 038, 957	9, 777, 122	8, 343, 261
Timberdollars	3, 730, 835 2, 860, 110	2, 356, 260 2, 325, 024	3, 642, 084 2, 067, 936	3, 270, 294 1, 575, 612	2, 914, 542 2, 627, 802
Tobacco, and manufactures of dollars	1, 625, 670	1, 351, 556	1, 145, 502	1, 414, 746	1, 867, 212
Wine Sgallons	409, 290	388, 646	270, 585	342, 125	326, 301
( dotters	842, 238	830, 038	653, 670	870, 912	821, 340
Wool	32, 097, 686 8, 949, 690	36, 215, 972 9, 848, 790	41, 417, 925 11, 229, 030	46, 831, 787 10, 590, 912	45, 631, 322 9, 869, 688
Woolen goodsdollars	4, 440, 096	5, 830, 934	4, 364, 766	8, 835, 492	4, 460, 508
All other articlesdollars	21, 973, 679	20, 991, 490	21, 815, 257	19, 045, 110	20, 400, 329
Total merchandisedollars	79, 829, 660	81, 488, 519	80, 393, 634	75, 642, 820	79, 230, 461
Speciedollars	524, 880	907, 848	699, 840	685, 260	290, 628
Grand total importsdollars	80, 354, 540	82, 396, 367	81, 093, 474	76, 328, 080	79, 521, 089
SOUTH AUSTRALIA.					
	00 170	04 004	00 004	715 000	1 100 000
Apparel and hopsdollars	98, 172	94, 284	86, 994	715, 392 <b>2</b> , 333, 973	1, 180, 008 1, 839, 966
Bags and sacks	1, 069, 200	470, 934	829, 022	329, 994	295, 974
Beer, porter, ale, &c gallons dollars	283, 370	315, 212	252, 754	269, 211	383, 422
Roots and shoot	259, 656	314, 442	219, 672	221, 616	847, 976
Boots and shoesdollars	356, 724 618, 189	291, 600 807, 497	810, 554 619, 535	436 428 814, 847	437, 400 1, 617, 951
Candles	110, 322	147, 258	102, 060	135, 594	268, 272
Coal, coke, &c	91, 941	97, 630	125, 622	105, 751	89, 555
Cutlom and hard-and	427, 680	442, 746	572, 994	460, 728	409, 212
Cutlery and hardwaredollars Drapery, piece goods, cloth, &c., dol-		163, 296	205, 578	802, 292	317, 844
lars	4, 604, 850	4, 198, 554	8, 861, 756	8, 868, 074	8, 535, 650
Groceries and oilmen's stores dollars  Iron:		234, 252	292, 086	800, 834	249, 804
Bar, sheet, hoop, &c { tons { dollars	4, 474 284, 908	5, 243 817, 858	11, 533 364, 986	5, 350 250, 290	5, 173 232, 794
Grindery, hollow ware, wire, &c.,		•	1	Ĭ	•
dollarsdollarsdollars	1, 131, 894 178, 362	1, 048, 788 194, 886	1, <b>623, 726</b> 225, 018	1, <b>3</b> 81, <b>69</b> 8 <b>265</b> , 842	1, 515, 834 206, 550
Machinerydollars	138, 510	151, 632	140, 940	100, 116	185, 652
Agricultural machinerydollars		107, 406	138, 024		226, 962

AUSTRALASIA—Continued.

including intercolonial trade—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
1, 799, 658	1, 371, 978	1, 194, 588	1, 359, 828	1, 524, 582	1, 535, 760	1, 535, 274	1, 747, 170
884, 039	972, 513	789, 585	780, 785	1, 014, 851	936, 153	1,041,594	1, 023, 156
910, 763   1, 037, 124	940, 410   873, 828	818, 910   490, 374	785, 862 512, 244	1, 009, 908 591, 948	960, 822 593, 752	1, 060, 938 489, 888	1, 064, 340 534, <b>0</b> 00
948, 960	1, 048, 320	698, 880	1, 700, 160	1, 211, 840	571, 200	1, 153, 600	1, 066, 240
170, 586	173, 988	114, 210	278, 478	193, 914	104, 976	223, 074	216, 270
296, 548	298, 661	290, 359	332, 430	358, 623	423, 886	452, 184	506, 751
1, 734, 534 3, 223, 631	1, 724, 814   2, 595, 726	1, 492, 020   8, 274, 182	1, 524, 09d   4, 241, 322	1, 660, 662 5, 094, 738	1, 826, 874` 4, 065, 390	2, 005, 722 4, 599, 018	2, 191, 860 4, 954, 284
29, 646	18, 468	40, 824	16, 524	77, 760	78, 246	86, 022	56, 376
279, 936	175, 832	148, 716	268, 272	<b>874,</b> 220	<b>331, 938</b>	358, 192	414, 204
583, 200	87, 966	221, 616	658, 041	802, 383	3, 141, 990 1, 208, 851	630, 342	677, 976 1, 083, 294
2, 540, 322   1, 311, 714	2, 823, 660 1, 024, 974	1, 438, 560   1, 091, 056	1, 683, 990   1, 586, 304	1, 226, 178 1, 641, 708	1, 306, 854 2, 548, 842	756, 702   1, 762, 236	1, 855, 548
761, 961	475, 791	372, 762	564, 246	823, 284	869, 454	930, 504	984, 630
671, 166	568, 134	463, 158	569, 106	627, 912	614, 790	586, 602	529, 23
1, 019, 628   2, 879, 550	862, 164 1, 738, 422	736, 290   2, 263, 788	945, 756   2, 332, 314	1, 093, 986   4, 441, 068	<b>1,</b> 154, 250   <b>8,</b> 360, 204	1, 008, 936 3, 231, 414	1, 170, 774 3, 678, 04
674, 568	674, 082	663, 876	698, 382	736, 776	798, 012	933, 120	831, 54
199, 746	171,072	159, 894	113, 238	154, 548	137, 538	203, 148	187, 59
554, 176	<b>9</b> 19, 332   <b>4,</b> 326, 486	1, 021, 620	1, 158, 518	857, 521	<b>1</b> , 020, 692	2, 034, 538 6, 479, 352	1, 160, 70 4, 287, 00
2, 998, 592 537, 030	419, 418	4, 278, 258   294, 030	8, 680, 428   502, 524	<b>3</b> , 861, 270 <b>7</b> 35, 804	4, 485, 294 1, 134, 324	1, 214, 514	769, 82
2, 208, 814	2, 095, 038	1, 957, 987	1, 923, 917	<b>1, 974, 6</b> 66	<b>1</b> , 825, 831	2, 077, 197	3, 060, 65
1, 201, 392	1, 064, 340	969, 084	989, 982	892, 298	937, 494	1, 015, 254	1, 231, 52
1, 246, 590   1, 044, 416	976, 860 1, 118, 915	951, 588   978, 533	1, 282, 554 1, 335, 129	1, 257, 282 1, 160, 837	1, 265, 280 1, 127, 968	1, 292, 760 1, 190, 446	1, 294, 21 1, 099, 06
1, 803, 546	1, 878, 390	1, 631, 502	2, 074, 734	1, 930, 391	1, 989, 193	<b>2</b> , 105, 352	1, 799, 65
295, 974	336, 798	260, 496	405, 891	450, 522	410, 184	468, 074	468, 01
52, 845, 568   5, 293, 942	89, 867, 168   5, 529, 006	86, 288, 944 5, 050, 026	83, 428, 653 6, 090, 044	120, 834, 083 5, 641, 488	125, <b>4</b> 25, 256 5, <b>4</b> 82, 080	113, 869, 163 5, 785, 344	138, 128, 36 5, 851, 44
8, 212, 102	8, 386, 960	8, 691, 160	<b>15, 122, 0</b> 30	11, 438, 456	9, 363, 122	11, 524, 205	13, 679, 85
2, 628, 744	2, 494, 638	<b>2</b> , 83 <b>5</b> , 810	4, 581, 036	3, 621, 672	2, 740, 531	3, 245, 508	3, 640, 62
2, 593, 296   1, 306, 854	1, 546, 452   864, 108	1, 272, 348   762, 534	<b>2,</b> 342, 034 992, 938	3, 476, 814 1, 225, 692	3, 433, 104 1, 029, 348	3, 566, 268 1, 056, 078	3, 691, 170 1, 223, 74
271, 950	168, 796	172, 394	210, 305	255, 651	230, 300	161, 814	175, 37
717, 336	475, 308	279, 936	638, 604	741, 150	772, 740	495, 720	549, 18
<b>49,</b> 170, 510   11, <b>4</b> 82, 722	50, 046, 396   12, 123, 756	60, 723, 152   14, 469, 678	59, 345, 348 14, 032, 278	53, 839, 219 13, 290, 643	45, 520, 395 9, 931, 896	59, 675, 280 12, 518, 874	54, 688, 90 10, 701, 17
4, 209, 732	3, 408, 318	3, 137, 130	3, 224, 124	4, 495, 014	3, 853, 980	4, 486, 266	4, 150, 44
20, 805, 153	20, 067, 327	18, 905, 371	21, 794, 695	<b>26, 6</b> 86, 172	24, 405, 115	26, 499, 108	23, 862, 68
76, 953, 639	71, 812, 517	70, 083, 115	80, 697, 972	90, 381, 817	85, 295, 163 ————————————————————————————————————	90, 623, 608	85, 728, 47
1, 593, 108	1, 260, 198	663, 390	554, 440	733, 860	939, 924	2, 696, 328	1, 968, 80
78, 546, 737	<b>73</b> , <b>072</b> , <b>71</b> 5	70, 746, 505	81, 252, 012	91, 115, 677	86, 235, 087	93, 319, 936	87, 696, 77
<b>1. 299,</b> 078	2, 544, 994	1, 221, 318	1, 316, 574	1, 555, 200	1, 567, 836	1, 233, 468	
8, 394, 872	<b>3, 456, 286</b>	1, 466, 364	3, 360, 266	4, 153, 068	4, 834, 314	4, 001, 630	
557, 442	439, 344	219, 186	590, 004	563, 274	639, 090	445, 662	
289, 851 257, 580	<b>4</b> 61, 837 <b>423, 79</b> 2	373, 452 338, 742	303, 549 263, 879	426, 180 370, 818	498, 944 451, 980	424, 302 856, 724	
453, 921	506, 412	552, 582	433, 512	703, 242	653, 184	614, 304	
1, 200, 799	1, 232, 614	1, 845, 634	1, 311, 443	1, 382, 964	884, 435	1, 177, 892	
187, 110 110, 862	175, 406 113, 676	163, 782 107, 135	156, 006 127, 666	164, 268 152, 187	121, 014 150, 140	181, 764 139, 810	
514, 188	510, 786	459, 756	478, 710	527, 310	442, 260	872, 370	
434, 484	<b>370, 332</b>	403, 866	386, 370	551, 124	495, 234	439, 344	
3, 406, 374 222, 102	3, 050, 136 1, 292, 760	3, 227, 526 1, 210, 626	3, 411, 234 1, 283, 526	4, 663, 170 1, 558, 602	5, 472, 360 1, 094, 472		
8, 624	5, 377	7, 218	5, 567	9, 040	9, 073	6, 697	
356, 724	200, 718	280, 422	197, 316	329, 508	290, 086	238, 140	
1, 456, 056	1, 172, 718	1, 559, 088	1, 277, 694	2, 019, 330	1, 404, 054		
260, 010 170, 586	196, 344 229, 878	198, 774 202, 176	177, 876 231, 336	301, 320 848, 948	252, 750 866, 930	270, 216	
287, 226	226, 962	202, 176   188, 082	201, 204	296, 946		210, 210	
<b>,</b> = <b>-</b> -		,		,			

## AUSTRALASIA—Continued.

## Quantities and values of principal imports,

Spirits and wine:    Gallons	Articles.	1873.	1874.	1875.	1876.	1877.
Spirits and wine:   Gallone   283 376   115 212   252 754   289 311   323 4.02				 		
Brandy	SOUTH AUSTRALIA—continued.					
State	Spirite and wine:					222 122
Glin	Brandy { gallons	283, 376 178, 382				
Whisky	Gin' Sgallons	21, 408	18, 559	6, 078	15, 483	17, 187
Winsey	( uonara					
Coal	Whisky { dollars	25, 758	36, 936	30, 618	33, 048	63, 180
Sugar						52, 333 130 948
Tesa	Spounds			15, 743, 840	21, 993, 776	17, 585, 920
Tobacco, manufactured dollars 130, 742 151, 838 194, 886 189, 792 222, 440 Tobacco, unmanufactured dollars 1714 1, 612 1, 774 1, 212 223, 440 Wood and timber dollars 616, 734 613, 818 987, 522 1, 502, 190 1, 228, 440 Wood and timber dollars 1, 586, 304 1, 485, 702 1, 835, 252 1, 502, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 Wool Contains 616, 734 613, 818 887, 525 2, 103, 190 1, 228, 724 1, 104, 976 814, 190 1,	" ( uvinite					1, 093, 600
Tobacco, unmanufactured dollars. etc., 14	dollars	<b>565</b> , 218				
Wood and timber   dollars   516,734   613,818   997,552   1,052,106   73,48   73,28   724   75,107   75,104   400   7,105,355   9,068   73,48   3,368,827   75,28	Tobacco, manufactureddollars	130, 734				
Wool	Wood and timberdollars					1, 328, 724
All other articles   dollars   4, 632, 510   6, 149, 660   5, 936, 660   6, 538, 204   8, 185, 647   Total merchandise   dollars   18, 006, 300   18, 969, 478   19, 403, 550   21, 362, 033   22, 045, 961   Bullion and specie   dollars   16, 667, 746   19, 358, 838   20, 430, 468   22, 240, 235   22, 479, 979    TASMANIA   Boots and shoes   dollars   113, 724   104, 976   92, 340   100, 716   134, 136   Coal   dollars   dollars   11, 042   9, 885   14, 554   23, 629   24, 666   Drapery, including apparel   dollars   1, 472, 036   1, 721, 898   1, 493, 964   1, 405, 028   1, 726, 228   Ballion and shoes   dollars   1, 472, 036   1, 721, 898   1, 493, 964   1, 405, 028   1, 726, 228   Brapary and books   dollars   134, 136   557, 928   274, 590   125, 388   31, 596   Sugar, raw   dollars   709, 590   676, 512   543, 834   555, 218   607, 014   Tea.   dollars   95, 742   55, 404   62, 208   52, 488   79, 218   All other articles   dollars   2, 090, 406   2, 245, 247   2, 445, 270   2, 226, 531   2, 819, 631   Total imports   dollars   400, 374   634, 230   685, 144   693   1, 179, 990   1, 172, 221   1, 169, 316   Coal   dollars   400, 374   634, 230   685, 144   693   1, 179, 990   1, 172, 221   1, 169, 316   Coal   dollars   400, 374   634, 230   685, 144   693, 144   693   1, 179, 990   1, 172, 221   1, 169, 316   Coal   dollars   400, 374   634, 230   685, 144   409, 212   1, 169, 316   Coal   dollars   400, 374   634, 230   685, 144   409, 212   1, 169, 316   Coal   dollars   130, 286   130, 286   141, 287   177, 990   177, 281   177, 183   177, 990   177, 281   177, 183   177,	Wool Spounds	5, 227, 197		7, 165, 355		3, 386, 827
Total merchandise   dollars   18,006,300   18,988,478   19,403,550   21,362,033   22,045,981	All other articlesdollars					8, 185, 647
Bullion and specie dollars. 661,446 369,360 1,026,918 578,202 433,998 Grand total imports dollars. 18,667,746 19,358,838 20,430,468 22,240,235 22,479,979  TARMANIA.  Boots and shoes. dollars. 11,042 9,885 14,554 23,629 24,665 Coal						
TABMANIA					====	
Coal						
Boots and shoes	Grand total importsdollars	18, 667, 746	19, 358, 838	20, 430, 468	22, 240, 230	22, 479, 979
Boots and shoes	TARMANIA					
Coal						404 404
Coal	Ctona	118, 724 11 042			100, 716 23, <b>629</b>	
Hardware and tronmongery	Coat { dollars	64, 638	57, 348	76, 788	134, 136	141, 912
Railway materials dollars 134, 136 557, 928 274, 500 125, 388 15, 500 Stationery and books dollars 709, 500 676, 512 543, 834 565, 218 607, 614 Tea 1 dollars 290, 142 1199, 260 172, 530 211, 410 206, 684 Tobacco dollars 95, 742 55, 404 62, 208 52, 488 79, 218 Wine dollars 57, 834 68, 526 53, 460 64, 638 54, 918 All other articles dollars 2, 080, 406 2, 245, 247 2, 245, 270 2, 286, 531 2, 819, 631 Total imports 5, 380, 832 6, 161, 435 5, 763, 678 5, 516, 395 6, 360, 141 NEW ZEALAND.  Ale and beer dollars 993, 824 1, 831, 640 1, 396, 278 884, 520 860, 706 800 800 800 800 800 800 800 800 800 8	Drapery, including appareldollars	1, 422, 036				
Sugar, rew	Railway materials	134, 136				31, 590
Tea. dollars 290, 142 199, 200 172, 330 211, 410 200, 004 Tobacco dollars 95, 742 55, 404 62, 208 52, 488 79, 218 Wine dollars 257, 834 68, 528 53, 460 64, 638 54, 918 All other articles dollars 2, 080, 406 2, 245, 247 2, 445, 270 2, 288, 531 2, 819, 631 Total imports 5, 380, 832 6, 161, 435 5, 763, 678 5, 576, 395 6, 360, 141 NEW ZEALAND.  Ale and beer dollars 933, 884 1, 331, 640 1, 396, 278 884, 520 800, 706 Boots and shoes dollars 1, 232, 2101 1, 045, 872 748, 010 653, 530 881, 604 119, 023 141, 591 162, 525 173, 314 171, 975 (Coal dollars 490, 374 634, 220 585, 144 409, 212 403, 880 (Drapery dollars 490, 374 634, 220 585, 144 409, 212 403, 880 (Drapery dollars 287, 712 511, 272 567, 789 413, 100 383, 940 (Live-stock dollars dollars 1, 287, 214 3, 507, 462 2, 088, 062 1, 511, 946 (Millinery, silks, linen, and hosiery dollars 361, 098 479, 682 500, 094 530, 693 512, 730 (Dtore kinds dollars 1, 072, 116 901, 530 (Dtore kinds dollars 1, 07	Stationery and booksdollars	154, 548	160, 380	160, 866	166, 698	164, 268
Tobacco dollars 57, 834 68, 526 53, 460 64, 638 54, 498 All other articles dollars 57, 834 68, 526 53, 460 64, 638 54, 918 All other articles dollars 5, 836, 832 6, 161, 435 5, 763, 678 5, 576, 395 6, 360, 141  **MEW ZEALAND.**  Ale and beer dollars dollars 983, 824 1, 331, 460 1, 396, 278 884, 520 880, 709 Boots and shoes dollars 1, 232, 010 1, 045, 872 746, 010 638, 530 881, 604 100 638, 630	Sugar, rawdollars	709, 500 290, 142				
All other articles   dollars   2, 080, 408   2, 245, 247   2, 445, 270   2, 286, 531   2, 819, 631    Total imports   5, 380, 832   6, 161, 435   5, 763, 678   5, 516, 395   6, 360, 141    NEW ZEALAND.  Ale and beer   dollars   317, 358   664, 362   428, 652   391, 716   380, 538   Apparel and slops   dollars   993, 824   1, 331, 640   1, 396, 278   884, 520   860, 706   Boots and shoes   dollars   1, 232, 010   1, 045, 872   744, 010   638, 530   831, 604   Coal   {tons   119, 023   141, 561   162, 525   178, 314   171, 975   Cottons   dollars   490, 374   634, 230   585, 144   409, 212   403, 380   Cottons   dollars   490, 374   634, 230   585, 144   409, 212   403, 380   Cottons   dollars   480, 374   634, 230   585, 144   409, 212   403, 380   Cottons   dollars   287, 712   511, 272   597, 780   413, 100   383, 940   Cotton, ironware, hardware, &c. dollars   2, 354, 184   2, 910, 654   3, 501, 630   2, 782, 392   2, 413, 476   Live-stock   dollars   150, 660   281, 394   327, 078   284, 716   104, 416   Millinery, silks, linen, and hosiery   dollars   354, 294   548, 694   546, 750   447, 606   490, 374   Railway materials   dollars   521, 964   916, 596   694, 494   805, 080   691, 092   Stationery and books   dollars   738, 720   726, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and refined   dollars   7,38, 720   7,26, 570   742, 122   828, 630   906, 390   Stationery and books   dollars   7,38, 720   7,404, 488   470, 384   470, 488   470, 488   470, 488   470, 488   4	Tobaccodollars	95, 742	55, 404	62, 208	52, 488	79, 218
Total imports   5, 380, 832   6, 161, 435   5, 763, 678   5, 516, 395   6, 360, 141	Winedollars	57, 834 2 080 408				
New Zealand   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationers   Stationery and books   Stationery and books   Stationery and books   Stationery and books   Stationers   Stationery and books   Stationers   Stationery and books   Stationers   Sta			<u> </u>			
Ale and beer dollars 317, 358 664, 362 428, 652 391, 716 380, 538 Apparel and slope dollars 993, 384 1, 331, 640 1, 396, 278 884, 520 860, 706 Boots and shoes dollars 1, 232, 010 1, 045, 872 746, 010 658, 630 881, 604 191, 023 141, 691 162, 525 173, 314 171, 975 (dollars 912, 708 1, 025, 948 1, 197, 990 1, 172, 232 1, 169, 316 Cottons dollars 400, 374 634, 230 685, 144 409, 212 403, 380 (Drapery dollars 287, 712 511, 272 597, 780 413, 100 383, 940 Iron, ironware, hardware, &c. dollars 287, 712 511, 272 597, 780 413, 100 383, 940 Iron, ironware, hardware, &c. dollars 287, 712 511, 272 597, 780 413, 100 383, 940 Iron, ironware, hardware, &c. dollars 287, 712 511, 272 597, 780 413, 100 383, 940 Iron, ironware, hardware, &c. dollars 287, 712 511, 272 597, 780 413, 100 383, 940 Iron, ironware, hardware, &c. dollars 287, 712 511, 272 597, 780 413, 100 383, 940 Iron, ironware, hardware, &c. dollars 150, 660 281, 394 327, 078 284, 716 104, 416 Millinery, silks, linen, and hosiery dollars 1, 287, 214 3, 507, 462 2, 098, 062 1, 511, 946 745, 524 Spirits:  Brandy dollars 521, 964 916, 596 694, 494 805, 080 691, 092 Stationery and books dollars 1, 287, 214 3, 507, 462 2, 098, 062 1, 511, 946 745, 524 Tes dollars 1, 812, 294 2, 061, 892 1, 470, 356 2, 125, 178 2, 067, 930 Iros dollars 1, 072, 116 901, 530 1, 290, 816 931, 588 1, 034, 644 Woolens dollars 470, 448 567, 648 457, 226 669, 708 52, 236 All other articles dollars 13, 223, 225 14, 369, 624 15, 718, 642 13, 831, 033 15, 189, 318 All other articles dollars 13, 223, 225 14, 369, 624 15, 718, 642 13, 831, 033 15, 189, 318 All other articles dollars 13, 223, 225 14, 369, 624 15, 718, 642 13, 831, 033 15, 189, 318 All other articles dollars 13, 223, 225 14, 369, 624 15, 718, 642 13, 831, 033 15, 189, 318 All other articles 13, 223, 225 14, 369, 624 15, 718, 642 13, 831, 033 15, 189, 318 All other articles 13, 223, 225 14, 369, 624 15, 718, 642 13, 831, 033 15, 189, 318 All other articles 13, 223, 225 14, 369, 624 15, 718, 642 13, 830, 538	Total importa	<b>5, 560, 652</b>	0, 101, 455			0, 300, 141
Apparel and slope dollars 993, 384 1, 331, 640 1, 396, 278 884, 520 860, 766 Boots and shoes dollare 1, 232, 010 1, 045, 872 746, 010 658, 530 881, 604 171, 975 176, 010 162, 525 173, 314 171, 975 176, 010 171, 975 176, 010 177, 975 176, 010 177, 975 177,	NEW ZEALAND.					
Boots and shoes	Ale and beerdollars	817, 358		428, 652		380, 538
Coal         tons         119,023         141,591         162,525         173,314         171,975           Cottons         dollars         912,708         1,025,946         1,197,990         1,172,232         1,169,316           Cottons         dollars         490,374         634,230         585,144         409,212         403,880           Drapery         dollars         8,611,318         5,623,992         5,133,132         3,882,654         4,171,824           Haberdashery         dollars         287,712         511,272         597,780         413,100         383,940           Iron, ironware, hardware, &c. dollars         2,354,184         2,910,654         3,501,630         2,782,392         2,413,476           Live-stock         number         2,727         3,538         2,647         1,308           Millinery, silks, linen, and hosiery         354,294         548,694         546,750         447,606         490,374           Railway materials         dollars         1,287,214         3,507,462         2,096,062         1,511,946         745,524           Spirits:         Brandy         dollars         361,098         479,682         500,094         530,693         512,730           Sugar, raw and refined	Apparel and slopsdollars	993, 884 1 232 010				
Cottons         dollars         490, 374         634, 230         585, 144         409, 212         403, 380           Drapery         dollars         3, 611, 318         5, 623, 992         5, 133, 132         3, 882, 654         4, 171, 824           Haberdashery         dollars         287, 712         511, 272         597, 780         413, 100         383, 940           Iron, ironware, hardware, &co. dollars         2, 354, 184         2, 910, 654         3, 501, 630         2, 732, 392         2, 413, 476           Live-stock         dollars         150, 660         281, 394         327, 078         284, 716         104, 416           Millinery, silks, linen, and hosiery         dollars         354, 294         548, 694         546, 750         447, 606         490, 374           Railway materials         dollars         1, 287, 214         3, 507, 462         2, 098, 062         1, 511, 946         745, 524           Spirits:         Brandy         dollars         521, 964         916, 596         694, 494         865, 080         691, 092           Other kinds         dollars         738, 720         720, 570         742, 122         828, 630         906, 390           Stationery and books         dollars         1, 812, 294         2, 051, 892	Cool Stons	119, 023		162, 525	173, 314	171, 975
Drapery         dollars         3, 61, 318         5, 623, 992         5, 133, 132         8, 882, 654         4, 171, 824           Haberdashery         dollars         287, 712         511, 272         597, 780         413, 100         383, 940           Iron, ironware, hardware, &c. dollars         2, 354, 184         2, 910, 654         3, 501, 630         2, 782, 392         2, 413, 476           Live-stock         number         2, 727         3, 538         2, 647         1, 808           Millinery, silka, linen, and hosiery         dollars         354, 294         548, 694         546, 750         447, 606         490, 374           Railway materials         dollars         1, 287, 214         3, 507, 462         2, 098, 062         1, 511, 946         745, 524           Spirits:         Brandy         dollars         521, 964         916, 596         694, 494         805, 080         691, 092           Other kinds         dollars         361, 098         479, 682         500, 094         530, 692         512, 730           Stationery and books         dollars         1, 812, 294         2, 051, 892         1, 470, 356         2, 125, 178         2, 067, 930           Tea         dollars         476, 766         538, 974         487, 944	dollars	912, 708				
Haberdashery dollars 287, 712 511, 272 597, 780 413, 100 383, 940 1ron, ironware, hardware, &c. dollars 2, 354, 184 2, 910, 654 3, 501, 630 2, 732, 392 2, 413, 476 2, 727 3, 538 2, 647 1, 308 2, 727 3, 538 2, 647 1, 308 2, 727 3, 538 2, 647 1, 308 2, 727 3, 538 2, 647 1, 308 2, 617 1, 308 2, 617	Draperydollars	3. 651. 318				
Live-stock { dollars .   150, 660   281, 394   327, 078   284, 716   104, 416   Millinery, silks, linen, and hosiery .   dollars .   354, 294   548, 694   546, 750   447, 606   490, 374   Railway materials .   dollars .   1, 287, 214   3, 507, 462   2, 098, 062   1, 511, 946   745, 524   Spirits:  Brandy   dollars .   521, 964   916, 596   694, 494   865, 080   691, 092   691, 092   691, 092   693   693	Haberdasherydollars	287, 712	511, 272	597, 780	413, 100	383, 940
Millinery, silks, linen, and hosierydollars354, 294 Railway materialsdollars354, 294 Spirits: Brandydollars521, 964 Other kindsdollars361, 098 Stationery and booksdollars361, 098 Sugar, raw and refineddollarsdollars1, 272, 116 Teadollarsdollars1, 072, 116 Tobacco and manufactures of dollarsdollars476, 766 Tobacco and manufactures of dollarsdollarsdollarsdollars476, 766 Winedollarsd	Iron, ironware, hardware, &cdollars	2, 854, 184				
Millinery, silks, linen, and hosiery	Live-stock	150, 660				
Railway materials       1, 287, 214       3, 507, 462       2, 098, 062       1, 511, 946       745, 524         Spirits:       Brandy       dollars       521, 964       916, 596       694, 494       865, 080       691, 092         Other kinds       dollars       361, 098       479, 682       500, 094       520, 693       512, 730         Stationery and books       dollars       738, 720       726, 570       742, 122       828, 630       906, 390         Sugar, raw and refined       dollars       1, 072, 116       901, 530       1, 290, 816       931, 588       2, 125, 178       2, 067, 930         Tobacco and manufactures of dollars       476, 766       476, 766       476, 766       538, 974       487, 944       547, 326         Wine       dollars       710, 532       896, 184       1, 050, 246       669, 708       522, 936         All other articles       dollars       13, 223, 225       14, 369, 624       15, 718, 842       13, 831, 033       15, 189, 318	Millinery silks linen and hos-		548 804	518 750	447 ANR	-
Spirits:       Brandy       dollars       521, 964       916, 596       694, 494       865, 080       691, 092         Other kinds       dollars       361, 098       479, 682       500, 094       520, 693       512, 730         Stationery and books       dollars       738, 720       726, 570       742, 122       828, 630       906, 390         Sugar, raw and refined       dollars       1, 812, 294       2, 051, 892       1, 470, 356       2, 125, 178       2, 067, 930         Tea       dollars       476, 766       476, 766       538, 974       487, 944       547, 326         Wine       dollars       470, 448       567, 648       457, 326       480, 654       463, 644         Woolens       dollars       710, 532       896, 184       1, 050, 246       669, 708       522, 936         All other articles       dollars       13, 223, 225       14, 369, 624       15, 718, 842       13, 831, 033       15, 189, 318	Railway materialsdollars					745, 524
Other kinds         dollars         361,098         479,682         500,094         520,693         512,730           Stationery and books         dollars         738,720         726,570         742,122         828,630         906,390           Sugar, raw and refined         dollars         1,812,294         2,051,892         1,470,356         2,125,178         2,067,930           Tobacco and manufactures of dollars         476,766         476,766         538,974         487,944         547,326           Wine         dollars         470,448         567,648         457,326         480,654         463,644           Woolens         dollars         13,223,225         14,369,624         15,718,842         13,831,033         15,189,318	Spirite:	591 OAA	018 508	BOT TOT	<b>ጸ</b> ሴ5 ብደሰ	AQ1 002
Stationery and books       dollars       738, 720       726, 570       742, 122       828, 630       906, 390         Sugar, raw and refined       dollars       1, 812, 294       2, 051, 892       1, 470, 356       2, 125, 178       2, 067, 930         Tobacco and manufactures of dollars       476, 766       476, 766       538, 974       487, 944       547, 326         Wine       dollars       470, 448       567, 648       457, 326       480, 654       463, 644         Woolens       dollars       710, 532       896, 184       1, 050, 246       669, 708       522, 936         All other articles       dollars       13, 223, 225       14, 369, 624       15, 718, 842       13, 831, 033       15, 139, 318	Other kindsdollurs	361, 098	479, 682	500, 094	530, 693	<b>512, 730</b>
Teadollars	Stationery and booksdollars	738, 720				906, 390
Tobacco and manufactures of dollars       476, 766       476, 766       538, 974       487, 944       547, 320         Wine       470, 448       567, 648       457, 326       480, 654       463, 644         Woolens       dollars       710, 532       896, 184       1, 050, 246       669, 708       522, 936         All other articles       13, 223, 225       14, 369, 624       15, 718, 842       13, 831, 033       15, 189, 318	Teadollarsdollars	1, 512, 294 1, 072, 116	2, 051, 892 901, 530	1, 290, 816	2, 125, 175 931, 588	2, 007, 930 1, 034, 694
Woolens	Tobacco and manufactures of dollars	476, 766	476 <b>, 766</b>	538, 974	487, 944	547, 820
All other articles						
Total imports						15, 139, 318
	Total imports	31, 418, 379	89, 472, 006	39, 021, 776	33, 559, 131	83, 891, 152

### AUSTRALASIA-Continued.

including intercolonial trade—Continued.

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1878.	1879.	1880.	1881.	1882.	1888.	1884.	1885.
<b>289</b> , 851	461, 837	378, 452	303, 540	426, 189	498, 941	424, 392	,
282, 852	340, 200	373, 734	332, 910	282, 866	303, 750	232, 794	
18, <b>43</b> 5 31, 104	17, 921 82, 076	13, 060 22, 842	14, 572	13, 901	31, 107	16, 146	************
47, 604	46, 977	88, 227	28, 188 114, 063	18, 954 104, 381	36, 936 115, 667	24, 786 115, 122	
74, 884	77, 274	164, 754	194, 400	202, 176	240, 084	244, 946	
40, 125 118, 584	47, 961 134, 622	51, 341	46, 022	58, 240	49, 226	33, 958	• • • • • • • • • • • • • • • • • • • •
27, 039, 040	24, 207, 904	144, 342 23, 274, 608	137, 538 25, 986, 256	177, 362 29, 529, 024	144, 342 34, 344, 880	110, 322 34, 178, 704	
1, 676, 214	1, 470, 150	1, 475, 496	1, 368, 090	1, 772, 442	2, 177, 766	1, 870, 128	•••••
2, 333, 935	1, 970, 874	2, 060, 184	8, 074, 713	2, 810, 896	1, 781, 231	2, 229, 983	
755, 244 154, 062	637, 146	615, 762 76, 802	845, 640 59, 778	765, 450 102, 546	452, 466 88, 452	565, 704 90, 882	
<b>59, 77</b> 8	43,740	106, 920	88, 472	126, 846	60, 264	77, 274	
1, 448, 766	1, 232, 982	1, 288, 012	1, 360, 314	1, 700, 028	1, 280, 124	913, 194	
18, 414, 375 3, 245, 994	9, 693, 656 2, 124, 792	10, 009, 719 2, 470, 824	8, 160, 233 1, 646, 082	17, 775, 606 4, 195, 554	13, 209, 299 3, 213, 432	16, 816, 068 8, 854, 952	
9, 323, 516	6, 840, 827	7, 854, 119	7, 838, 857	8, 801, 400	8, 861, 045	13, 552, 852	
27, 030, 882	23, 891, 517	24, 819, 033	24, 305, 510	32, 098, 184	30, 316, 947	26, 189, 826	
766, 423	477, 252	2, 307, 042	1, 069, 200	50 <b>1, 6</b> 66	349, 920	1, 752, 030	
27, 797, 805	24, 368, 769	27, 126, 075	25, 374, 710	32, 599, 850	30, 666, 867	27, 941, 856	
						=====	
122, 472	169, 614	168, 642	154, 062	228, 420	200, 232	199, 074	243, 486
27, 682	14, 057	23, 005	22, 622	36, 147	36, 763	43, 402	46, 956
131, 220 1, 585, 818	72, 900 1, 675, 728	99, 144 1, 732, 590	149, 688 1, 934, 766	138, 024 2, 245, 320	172, 044 2, 897, 438	197, 316, 2, 009, 096	208, 49 <b>4</b> 2, 022, 73 <b>2</b>
439, 344	451, 008	521, 964	629, 370	663, 820	896, 184	6;7, 146	661, 932
112, 266	120, 528	466, 560	544, 820	101, 574	299, 376	263, 898	
213, 840 7 <b>93</b> , <b>6</b> 38	173, 988 576, 396	133, 164 656, 586	161, 838	171,008	233, 766	222, 102 486, 972	197, 316
185, 166	191, 970	200, 232	763, 506 223, 074	780, 516 233, 766	889, 866 192, 942	212, 868	822, 812 210, 924
57, 834	50, 544	46, 170	61, 722	115, 182	116, 154	113, 238	105, 948
65, 124 2, 732, 134	50, 544 <b>2, 626, 70</b> 8	51, 516 <b>2,</b> 577, 856	54, 432 2, 278, 582	93, 112 - 3, 847, 146	71, 444 3, 437, 170	59, 778 <b>8, 6</b> 17, <b>245</b>	60, 26 <u>4</u> 4, 007, 97 <u>4</u>
6, 438, 856	6, 159, 928	6, 654, 424	6, 955, 360	8, 120, 438	8, 906, 616	8, 048, 733	8, 541, 382
			0, 230, 300	0, 120, 400	=======================================	=======================================	4, 011, 002
559, 872	592, 508	478, 710	446, 148	553, 924	808, 520	415, 044	496, 692
1, 230, 552 1, 122, 660	1, 430, 784 834, <b>4</b> 62	930, <b>6</b> 90 <b>4</b> 75, 808	1, 157, 166	1, 422, 522	1, 282, 0 <b>6</b> 8 818, 42 <b>4</b>	. 961, 308 698, 868	1, 053, 1 <b>62</b> 902, 01 <del>0</del>
191, 563	173, 884	135, 628	<b>6</b> 40, 548 1 <b>42, 9</b> 58	935, 046 142, 540	142, 727	173, 561	128, 78 <b>6</b>
1, 304, 424	1, 076, 490	823, 770	766, 908	798, 01 <b>2</b>	756, 702	933, 120	714, 906
690, 606 5 48 154	561, 830	406, 296	744, 552	1, 161, 054	1, 022, 544	1, 048, 302	1, 152, <b>806</b>
5, 348, 154 358, 182	5, 686, 686 367, 416	8, 744, 630 170, 5∂6	<b>4,</b> 962, 752 274, 104	5, 184, 162 293, 544	4, 886, 730 284, 796	4, 779, 824 824, 162	5, 295, 456 897, 0 <b>6</b> 2
3, 559, 464	2, 585, 868	<b>2,</b> 078, 622	<b>2,</b> 895, 102	8, 978, 896	3, 200, 796	8, 447, 198	3, 092, <b>69</b> 8
1, 538	1,457	1, 592	838	634	703	1, 188	843
198, 774	211, 410	148, 576	<b>151, 632</b>	148, 828	73, 872	84, 564	54, 482
<b>525</b> , 478	456, 810	296, 460	395, 609	521, 964	552, 582	<b>8</b> 85, <b>398</b>	559, 886
<b>956, 44</b> 8	<b>1, 969, 7</b> 58	650, 148	437, 286	219,704	1, 148, 072	1, 440, 504	843, 696
638, 670	613, 818	532, 656	613, 818	538, 488	432, 540	374, 706	353, <b>322</b>
593, 406	491, 846	499, <b>608</b>	777, 600	778, 086	053, 184	756, 702	728, 514
1, 038, 508 2, 548, 584	1, 024, 488 2, 487, 834	808, 70 <b>2</b> <b>2</b> , 80 <b>8</b> , 108	838, 350 2, 751, <b>24</b> 6	1, 028, 862 2, 882, 872	1, 024, 488 8, 020, 004	1, 052, <b>6</b> 76 8, 431, 160	1, 081, <b>836</b> 1, <b>6</b> 38, <b>9</b> 72
1, 476, 468	961, 794	1, 218, 888	2, 751, 246 1, 241, 244	1, 855, 940	1, 119, 744	876, 255	1, 055, 106
<b>656,</b> 586	465, 102	361, 584	461, 700	<b>524, 894</b>	564, 240	472, 392	610, 902
502, 038 666, 792	477, <b>664</b> 846, 126	253, 20 <b>6</b> 510, 786	875, 678 472, 892	455, 882 754, 758	<b>466</b> , 074 <b>632</b> , 772	881, 452 488, 432	824, 162 579, 812
17, 941, 876	17, 559, 245	12, 711, 009	15, 887, 404	18, 757, <b>6</b> 14	16, 420, 667	14, 944, 929	15, 418, 478
42, 255, 542	40, 700, 969	29, 947, 378	86, 241, 239	41, 841, 052	88, 758, 825	87, 246, 496	86, 852, 416
	. , ,	, ,		,,			

### AUSTRALASIA-Continued.

# Quantities and values of principal imports,

Beer and ale	Articles.	1873.	1874.	1875.	1876.	1877.
Beer and ale	QUEENSLAND.	-				•
Beer and ale	Apparel and slopsdollars	373, 248	400, 950	234, 252	86, 994	79, 218
Boots and shoes	Room and ale Sgallons	610, 382				730, 845
Flour and breadstnffs	dollars	486, 486				513, 702
Hardware and ironmongery   dollars   433, 026   449, 084   558, 900   462, 186   477, 041	Boots and shoesdollars	398, 034				526, 824
Hardware and ironmongery	Flour and breadstuffs tons	18, 246				
Iron and steel	Hardware and incompanded dellars	1, 103, 218				
Machinery         dollars         251, 262         315, 900         319, 802         325, 134         482, 544           Linen and drapery         dollars         1, 852, 146         1, 994, 544         2, 766, 312         2, 251, 152         2, 829, 497           Oilmen's stores         dollars         1, 107         2, 930         2, 780         2, 780         2, 780         2, 780         5, 64           Rice         { dollars         100, 602         88, 938         187, 506         145, 314         133, 197, 88           Saddlery and harness         dollars         136, 609         204, 606         189, 640         145, 314         133, 197, 88           Spirits:         Brandy         { gallons.         153, 254         213, 089         105, 112         175, 588         179, 207           Rum         { gallons.         67, 173         64, 511         53, 145         62, 576         93, 300         152, 286         179, 207           Stationery:         dollars         88, 508         85, 536         126, 880         177, 274         127, 818           Stationery:         Brooks.         dollars         280, 684         153, 909         187, 596         108, 634         228, 906           Sugar, unrefined         po	Tron and steel dollars	492 804				
Leathur dollars (2, 208 60, 000 58, 320 61, 722 65, 614 Linen and drapery (dollars 1, 932, 146 1, 994, 544 2, 766, 312 2, 251, 152 2, 829, 492 Oilmen's stores (dollars 100, 602 88, 938 187, 506 163, 296 310, 788 Saddlery and harness (dollars 136, 690 204, 606 189, 546 163, 296 310, 788 Saddlery and harness (dollars 136, 690 204, 606 189, 546 163, 296 310, 788 Spirits:  Brandy (dollars 837, 770 559, 872 469, 324 470, 448 573, 964 Rum (dollars 11, 664 20, 898 24, 300 30, 132 28, 677 Gin and geneva (gallons 67, 173 64, 511 53, 145 62, 576 95, 606 Stationery:  Books (dollars 86, 508 85, 538 187, 596 196, 634 208, 987 Sugar, unrefined (pounds 1, 203, 634 153, 690 187, 596 196, 634 208, 987 Sugar, unrefined (dollars 167, 670 94, 770 114, 454 170, 100 55, 404 Tea dollars 17, 188 18, 592 20, 690 21, 884, 901 83, 547 Gigars (dollars 78, 33, 575 1, 719, 294 1, 701, 843 1, 447, 541 196, 634 187 Cigars (dollars 78, 33, 575 1, 719, 294 1, 701, 843 1, 447, 541 196, 634 187 All other articles (dollars 5, 911, 290 0, 430, 202 6, 795, 496 188, 320 9, 324, 347 Cigars (dollars 78, 33, 575 1, 719, 294 1, 701, 843 1, 447, 541 196, 634 187, 542 187, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 542 188, 544 188, 544 188, 544 188, 554 188, 544 188,	Machinerydollars.	251, 262				
Linen and drapery dollars   1,852,146   1,994,544   2,766,312   2,251,152   2,829,492   171,072   203,633   17,703   18,004   18,004   19,	Leather dollars	62, 208				65, 610
Oilmen's stores.         dollars.         1, 165         1, 107         29, 30         2, 780         5, 64           Rice         (tons.         1, 165         1, 107         2, 930         2, 780         5, 64           Rice         (dollars.         100, 602         88, 938         187, 506         163, 298         310, 78           Saddlery and harness.         dollars.         136, 680         204, 606         189, 540         145, 314         133, 67           Spirits:         Brandy         dollars.         337, 770         559, 872         493, 240         470, 448         573, 96           Rum.         (dollars.         11, 664         20, 898         24, 300         30, 132         28, 677           Gin and geneva.         (guilons.         67, 173         64, 511         53, 145         62, 576         95, 606           Stationery:         Rocka.         dollars.         86, 508         85, 536         128, 860         143, 856         128, 79         85, 608           Sugar, unrefined.         (pounds.         3, 104, 200         1, 584, 600         3, 084, 400         2, 684, 000         853, 600           Tea.         (pounds.         1, 353, 575         1, 719, 244         1, 711, 194         1, 4	Linen and draperydollars	1, 852, 146	1, 994, 544	2, 766, 312		2, 829, 492
Saddlery and harness	Oilmen's storesdollars				171, 072	203, 634
Spirits   Spir	Rice Stons	1, 165	1, 107			
Spirits	Saddlars and harmon	100,602				
Rum	Spirita:	1	Ì		1	1
Rum	Brandy Sgallons	153, 254				
Gin and geneva.						
Gin and geneva						
Stationery   Rocks						
Stationery   Rooks	Gin and geneva dollars	82 134				1
Rooks	Stationery:		11,000	31,010	1	251,616
Sugar, unrefined.         { pounds. dollars	Booksdollars	86, 508	85, 536	126, 360		128, 790
Tea.	Paper, ink. &cdollars	203, 634				208, 980
Tea.	Sugar unrefined pounds	3, 104, 200				
Cigars	arallop (	167,670				
Tobacco, manufactured.	Tea	449 719				
Cigars	Connda	429, 130		613, 515	554, 110	
Cigars       {pounds.       17, 188 dollars.       18, 592 20, 690 21, 864 36, 936 35, 478 34, 020       19, 616 34, 020         Wine.       {gallons.       78, 032 77, 950 99, 875 dollars.       152, 118 153, 576 189, 540 133, 164 168, 154 168, 155 170, 189, 540 133, 164 168, 155 170, 189, 540 133, 164 168, 155 170, 189, 540 133, 164 168, 155 170, 189, 189, 189, 189, 189, 189, 189, 189	Tobacco, manufactured dollars	153, 164	191, 484	161, 852	198, 285	240, 084
Cigars   Solitars   Cigars   Solitars   Cigars   Solitars   Cigars   Solitars   Cigars   Ci	2 monnda			20, 690		19, 616
All other articles	, doings			36, 936		34, 020
All other articlesdollars	W 1110	78, 032		99, 875		84, 849
Total importsdollars 13, 316, 000 13, 772, 316 16, 175, 246 15, 195, 081 19, 759, 505    Overland imports of live stock included in totals	( domars					
Overland imports of live stock included in totals         650, 754         693, 473         1, 917, 570           RECAPITULATION.         Dollars.         Dollars.         Dollars.         Dollars.         Dollars.         Dollars.         66, 449, 808         70, 988, 076           Victoria         80, 354, 540         82, 396, 367         81, 093, 474         76, 328, 080         79, 521, 086           South Australia         18, 667, 746         19, 358, 838         20, 430, 468         22, 240, 235         22, 479, 976           Western Australia         1, 444, 878         1, 770, 498         1, 700, 028         1, 875, 960         1, 762, 722           Tasmania         5, 380, 832         6, 161, 435         5, 763, 678         5, 506, 395         6, 360, 141           New Zealand         31, 418, 379         39, 472, 006         39, 021, 776         33, 559, 131         33, 891, 152           Queensland         13, 316, 060         13, 772, 316         16, 175, 246         15, 195, 081         19, 759, 505	All other articles	5, 911, 290	0, 430, 020	0, 780, 496	0, 883, 820	9, 490, 297
Dollars	Total importsdollars	13, 316, 000	13, 772, 316	16, 175, 246	15, 195, 081	19, 759, 505
RECAPITULATION.         Dollars.       TO, 988, 076       Dollars.       TO, 988, 076       Dollars.       TO, 988, 076       Dollars.       TO, 988, 076       TO, 988, 076       Dollars.       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       TO, 988, 076       <				050 554	000 480	1 015 550
Dollars.       Dollars. <th< td=""><td>in totals</td><td></td><td></td><td>050, 754</td><td>093, 473</td><td>1, 917, 570</td></th<>	in totals			050, 754	093, 473	1, 917, 570
Dollars.       Dollars. <th< td=""><td>RECAPITULATION.</td><td></td><td></td><td></td><td></td><td></td></th<>	RECAPITULATION.					
Victoria       80, 354, 540       82, 396, 367       81, 093, 474       76, 328, 080       79, 521, 086         South Australia       18, 667, 746       19, 358, 838       20, 430, 468       22, 240, 235       22, 479, 976         Tasmania       5, 380, 832       6, 161, 435       5, 763, 678       5, 506, 395       6, 360, 141         New Zealand       31, 418, 379       39, 472, 006       39, 021, 776       33, 559, 131       83, 891, 152         Queensland       13, 316, 060       13, 772, 316       16, 175, 246       15, 195, 081       19, 759, 505						
South Australia       18, 667, 746       19, 358, 838       20, 430, 468       22, 240, 235       22, 479, 978         Western Australia       1, 444, 878       1, 770, 498       1, 700, 028       1, 875, 960       1, 762, 722         Tasmania       5, 380, 832       6, 161, 435       5, 763, 678       5, 506, 395       6, 360, 141         New Zealand       31, 418, 379       39, 472, 006       39, 021, 776       33, 559, 131       83, 891, 152         Queensland       13, 316, 060       13, 772, 316       16, 175, 246       15, 195, 081       19, 759, 505						70, 988, 076
Western Australia       1, 444, 878       1, 770, 498       1, 700, 028       1, 875, 960       1, 762, 722         Taemania       5, 380, 832       6, 161, 435       5, 763, 678       5, 506, 395       6, 360, 141         New Zealand       31, 418, 379       39, 472, 006       39, 021, 776       33, 559, 131       33, 891, 152         Queensland       13, 316, 060       13, 772, 316       16, 175, 246       15, 195, 081       19, 759, 505	Victoria					79, 521, 089
Tasmania       5, 380, 832       6, 161, 435       5, 763, 678       5, 506, 395       6, 360, 141         New Zealand       31, 418, 379       39, 472, 006       39, 021, 776       33, 559, 131       33, 891, 152         Queensland       13, 316, 060       13, 772, 316       16, 175, 246       15, 195, 081       19, 759, 505						22, 479, 979
New Zealand					1, 5/0, 900 K KOR 20K	
Queensland				89 021 778	33, 550 131	
• —————————————————————————————————————	Queensland	13, 316, 060				19, 759, 505
Total for Australesia	Total for Australesia				<u> </u>	234, 762, 664

# Quantities and value of principal

Articles.		1873.	1873. 1874.	1875.	1876.	1877.
NEW SOUTH WALES.						
Coal and coke	tons	866, 022 <b>2, 5</b> 67, 052	979, 000 <b>3, 085,</b> 128	1, 043, 079 8, 277, 584	973, 131 8, 056, 940	1, 027, 040 3, 164, 862
Copper, raw	dollars	102, 544 1, 879, 362	111, 564   2, 230, 254	134, 238 2, 436, 804	109, 726   1, 869, 642	139, 721 2, 260, 686
Tissues, apparrel, and hosiery.dollars		636, 660	924, 872	957, 906 814, 928	1, 092, 528	1, 510, 974
Flour	bushels	291, 114 1, 204, 220	332, 424 1, 025, 182	611, 360	221, 102   594, 303	444, 204 834, 107
Indian corn	dollars	870, 426	1, 026, 376	581, 742	433, 512	679, 576
Hides and skins	.dollara	286, 740 217, 242	305, 208 249, 804	855, 752 297, 256	367, 416 408, 240	<b>8</b> 80, 052 <b>6</b> 85, 746
	.dollars	501, 066	466, 074	538, 974	470, 448	482, 598

## including intercolonial trade—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
224, 532	289, 170	385, 398	704, 214	809, 676	952, 074	754, 874	627, 970
520, 519	545, 855	534, 850	538, 992	672, 198	920, 721	800, 270	981, 887
415, 044	423, 834	391, 230	387, 828	513, 702	695, 466	635, 174	770, 796
495, 720	514, 188	499, 608	527, 310	581, 724	643, 464	694, 982	756, 702
25, 793	24, 187	27, 195	24, 551	30, 139	29, 978	42, 274	37, 022
1, 537, 218	1, 267, 488	1, 315, 602	1, 202, 850	1, 807, 920	1, 654, 844	1, 821, 528	1, 495, 908
434, 970	377, 186	465, 102	681, 372	1, 142, 586	1, 342, 612	1, 307, 826	1, 173, 204
685, 746	486, 000	697, 410	499, 888	1, 493, 964	1,641,708	1, 610, 604	1, 824, 930
345, 060	208, 494	264, 384	615, 276	1, 812, 294	1, 826, 888	1, 516, 320	1, 257, 768
56, 876	57, 834	64, 152	84,078	104, 490	94,770	106, 920	123, 444
2, 422, 224 153, 576	1, 609, 632 117, 612	1, 886, 652 160, 866	1, 805, 004 201, 204	2, 648, 700 301, 320	2, 741, 820 390, 744	2, 397, 438 517, 590	2, 647, 728
2, 231	3, 153	2, 550	8, 201	3, 299	3, 341	4, 730	464, 610 3, 379
165, 240	236, 682	169, 128	210, 438	204, 606	205, 092	256, 608	
175, 932	126, 360	117, 126	127, 332	205, 578	222, 588	181, 278	184, 680
147, 284	146, 410	148, 458	148, 438	148, 037	172, 597	165, 844	164, 250
428, 652	401, 992	417, 474	440, 816	418, 446	470, 448	486, 000	459, 270
11, 022	5, 932	11,680	11,906	15, 494	44, 893	63, 411	47, 012
19, 926	8, 262	19, 440	17, 010	21,870	60, 264	69, 498	61,722
64, 488	45, 259	70, 993	. 70, 110	80, 805	83, 005	82, 261	83, 446
73, 386	61, 236	78, <b>246</b>	74, 884	87, 480	96, 228	95, 742	88, 452
137, 052	145, 314	134, 622	137, 538	173, 502	203, 634	259, 038	292, 070
224, 532	198, 774	225, 990	264, 870	348, <b>46</b> 2	227, 934	226, 476	225, 018
528, 000 37, 422	822, 800 57, 834	552, 200 42, 282	508, 200 36, 450	578, <b>60</b> 0 39, <b>366</b>	712, 800	981, 200 59, 292	1, 265, 600 64, 638
1, 263, 149	1, 687, 848	2, 374, 563	2, 968, 514	2, 053, 817	2, 196, 187	2, 757, 277	<b>2,</b> 916, 030
372, 276	448, 578	628, 328	517, 104	531, 198	552, 582	672, 138	668, 736
565, 265	566, 068	592, 294	735, 103	662, 902	813, 880	1, 026, 781	1, 058, 881
194, 400	<b>169,</b> 128	174, 474	218, 700	225, 990	287, 712	810, 554	880, 052
19, 200	18, 876	15, 813	21, 400	37, 297	41, 949	58, 097	59, 432
<b>3</b> 0, <b>6</b> 18	27, 702	21, 384	81, 590	51, 516	64, 152	68, 040	82, 620
72, 666	46, 482	59, 293	68, 653	72, 081	94, 528	93, 190	99, 576
152, 118	90, 882	105, 948	142, 884	183,708	243, 486	221, 616	247, 874
7, 917, 523	7, 651, 077	6, 737, 119	10, 821, 393	16, 999, 674	15, 632,859	16, 746, 838	17, 155, 091
16, 699, 543	14, 973, 709	15, 002, 035	19, 749, 533	80, 707, 772	30, 294, 081	31, 016, 374	81, 213, 801
1, 114, 398	640, 062	997, 702	2, 243, 862	5, 544, 288	2, 214, 605	1, 637, 334	1, 123, 068
Dollars.	Dollare.	Lollars,	Dollars.	Dollars.	Dollars.	Dollara.	Dollars.
71, 776, 708	89, 006, 461	67, 797, 000	64, 609, 198	103, 426, 086	101, 866, 026	110, 938, 784	113, 749, 258
78, 548, 737	73, 072, 715	70, 746, 505	81, 252, 012	91, 115, 677	86, 235, 087	93, 319, 936	87, 696, 775
27, 797, 305	24, 868, 769	27, 126, 075	25, 874, 710	32, 599, 850	80, 666, 867	27, 941, 856	
1, 842, 426	1, 979, 478	1, 718, 983	1, 967, 328	1, 500, 768	2, 511, 648	2, 533, 032	3, 160, 900
6, 438, 856	6, 159, 928	6, 654, 424	6, 955, 360	8, 120, 438	8, 906, 616	8, 048, 730	8, 541, 382
42, 552, 542	40, 700, 969	29, 947, 373	86, 241, 239	41, 841, 052	38, 753, 828	37, 246, 496	86, 852, 416
16, 699, 543	14, 973, 709	15, 002. 035	19, 749, 533	80, 707, 772	30, 294, 081	31, 016, 374	31, 213, 301
245, 654, 117	230, 261, 979	218, 992, 394	256, 149, 380	309, 311, 643	299, 234, 213	811, 045, 158	I

## exports, including intercolonial trade.

1878.	1879.	1880.	1881.	1882.	· 1888.	1884.	1885.
1, 128, 049	1, 118, 135	845, 241	1, 159, 212	1, 416, 963	1, 699, 452	1, 978, 576	1, 968, 91;
8, 449, 142	8, 384, 504	2, 078, 136	2, 059, 182	3, 171, 150	4, 069, 278	4, 556, 250	4, 710, 31;
123, 894	183, 058	189, 121	151, 482	130, 266	223, 862	233, 910	113, 98;
1, 968, 786	1, 814, 724	2, 074, 784	2, 148, 606	1, 820, 556	8, 133, 270	2, 915, 514	1, 796, 74;
1, 641, 222	1, 741, 824	1, 948, 874	2, 068, 416	2, 192, 848	2, 045, 574	2, 124, 792	2, 224, 42;
296, 946	188, 568	279, 450	1, 043, 928	1, 120, 716	940, 410	857, 790	435, 45;
722, 632	835, 697	757, 104	675, 771	170, 289	303, 894	216, 953	399, 52;
694, 980	555, 498	414, 558	498, 636	230, 850	237, 654	249, 804	348, 46;
319, 802	823, 190	425, 786	481, 626	614, 790	692, 650	661, 446	584, 65;

## Quantities and value of principal exports,

Articles.	1873.	1874.	1875.	1876.	1877.
	_				
NEW SOUTH WALES—continued.					
Live stock:			1		
Horses { number. } dollars		2, 808 244, 458	2, 018 249, 604	1, 469 204, 606	5, 804 418, 446
Cattle number.		2, 513 170, 100	2, 987 186, 138	2, 522 182, 736	57, 980 2, 250, 666
Meats, preserved (not salted), exclusive of frozen meat		626, 454	444, 690	712, 476	811, 134
Refined		2, 400, 968 188, 568	5, 606, 272 393, 660	11, 721, 024 822, 312	9, 115, 456 682, 830
Unrefined	1, 569, 792	1, 084, 604 71, 442	2, 061, 696 132, 192	862, 400 57, 834	1, 014, 384 68, 040
Tallow	8, 053, 136	7, 995, 008 552, 582		9, 477, 104 665, 820	11, 243, 680 799, 956
Toe (donate.	1,011,709	735, 269	544, 948	927, 324	717, 819
Tip in mote { dollars . } pounds.	2, 303, 616	11, 411, 904		335, 826 13, 203, 568	17, 241, 616
Ore dollars		2, 217, 132 2, 177, 728	2, 309, 472 44, 912	1, 994, 058 19, 800	2, 905, 808 1, 844, 976
Brenon )	1, 279, 638	305, <b>694</b> 412, 893	4, 860	1, 555 661, 116	148, 716
dollars.	175, 932 1, 40, 462, 355	156, 034	123, 444	228, 906	235, 234 107, 807, 141
dollars.	13, 528, 782	14, 316, 102	15, 519, 924	15, 599, 142	27, 345, 276
All other merchandisedollars.	\ <u></u>	+22, 841, 538	*27, 402, 217	*26, 004, 478	9, 163, 577
Total exports of merchandise, dol	31, 068, 316	50, 501, 006	56, 266, 067	35, 166, 977	54, 711, 013
Gold: Coindollars. Dust and bardollars.		8, 358, 718 1, 079, 892	10, 121, 436 57, 834	7, 058, 874 873, 248	8, 828, 190 252, 234
Total golddollars.	. 14, 203, 556	9, 438, 610	10, 179, 270	8, 032, 122	9, 080, 424
Grand total exportsdollars.	45, 271, 872	<b>59,</b> 999, 616	66, 445, 337	63, 199, 099	63, 791, 437
VICTORIA.					
Boots and shoes	273, 132	376, 164	369, 360	400, 950	506, 412
Flour and biscuit { tons dollars		3, 676 <b>292</b> , 572	1, 817 172, 044	2, 090 194, 886	8, 625 685, 746
Grain: (tons	400	162	821	2, 944	3, 486
Oats	. 19,926 . 672	10, 692 287	43, 740 58	126, 360 65	1 <b>69</b> , 128 2, 179
dollars	•	14, 580	2, 347	2, 323	119, 556
All other { tons { dollars	347, 001	3, 850 315, 414	8, 832 321, 246	4, 736 454, 2 <b>9</b> 4	5, 722 421, <b>362</b>
Total grain		4, 805 840, 686	4, 711 367, 333	7, 745 582, 977	i1, 387 710, 046
Hides { number.		3, 511	2, 531	3, 323	2, 913
Leatherdollars.	. 1, 071, 144	18, 954 940, 896	13, 608 1, 195, 560	14, 580 953, <b>04</b> 6	14, 580 1, 007, 478
Live stock	. 502, 496	21, 449 590, 152	24, 121 713, 962	1 <b>6, 394</b> 743, 580	345, 447 1, 543, 53 <b>6</b>
Meats, preserved (not salted) { pounds . dollars		6, 760, 913 8 <b>54</b> , 874	5, 033, 437	6, 410, 395 809, 670	4, 911, 712 599 724
Meats, fresh (frozen) pounds . dollars	!		given prior (		
Potatoes { tons } dollars		12, 408 195, 858	19, 898 308, 610	21, 014 316, 872	23, 375 378, 108
Skine { number. } dollars		258, 056	231, 822	1, 695, 693	1, 404, 985 158, <b>43</b> 6
Soapdollars .	. 25, 728	32, 562	26, 244	33, 564	38, 394
Sugar	. 15, 373, 120	1, 348, 164 13, 592, 320	1, 564, 920 13, 910, 400	1, 189, 728 11, 424, 000	1, 403, 512 6, 044, 000
Tee ( donars ) pounds	3, 012, 257	970, 056 3, 035, 502	987, 552 3, 151, 102	848, 030 3, 221, 104	439, 830 3, 756, 956
Tea		1, 160, 082	1, 206, 252	1, 220, 346	1, 373, 436

<sup>\*</sup>The "overland exports" are not included in the totals for 1873; they amounted to \$11,865.690 "totals," but not in the "details" for the years 1874, 1875, and 1876, which accounts for the large land export."

AUSTRALASIA-Continued.

including intercolonial trade-Continued.

1878.	1879.	1880.	tomin	1882.	IIIIK	1884.	1865.
3, 721 422, 384 55, 626 2, 049, 462	2, 296 162, 224 58, 051 1, 968, 756	4, 050 304, 722 56, 757 2, 210, 828	8, 501 282, <b>36</b> 6 55, 540 1, <b>248</b> , 584	3, 648 335, 840 53, 685 1, 465, 996	315, 900 43, 269 1, 193, 644	5, 049 782, 946 45, 496 1, 187, 298	4, 778 701, 784 42, 853 1, 788, 586
215, 784	668, 876	1, 039, 554	894, 726	1, 008, 020	1, 533, 816	929, 383	1, 544, 029
9, 467, 024 602, 418 1, 125, 152 75, 810 6, 867, 840 476, 280 891, 867 837, 284 14, 902, 078 1, 931, 851 2, 531, 283 160, 768 529, 908 234, 738 116, 005, 930 28, 960, 572 0, 907, 742	11, 629, 776 829, 116 8, 408, 272 205, 578 17, 385, 536 1, 103, 220 1, 073, 883 370, 332 12, 972, 102 1, 817, 640 1, 822, 476 142, 898 501, 388 231, 873 32, 896, 798 10, 699, 487	11, 791, 360 838, 004 4, 421, 964 279, 936 31, 909, 924 1, 928, 934 1, 104, 781 893, 174 18, 780, 433 3, 269, 322 1, 544, 364 150, 660 544, 700 217, 242 162, 486, 323 41, 008, 250 11, 049, 722	6, 185, 184 568, 134 1, 587, 648 99, 630 25, 431, 840 1, 618, 720 600, 897 218, 214 23, 497, 930 4, 584, 924 1, 309, 872 182, 736 616, 397 287, 654 147, 183, 687 86, 599, 688 12, 025, 662	5, 462, 853 375, 678 1, 859, 312 120, 042 18, 174, 016 1, 249, 506 771, 164 265, 856 23, 948, 964 5, 157, 918 1, 415, 344 165, 726 591, 014 261, 954 153, 351, 354 37, 760, 182 13, 079, 296	4, 511, 930 298, 404 1, 742, 944 106, 434 28, 225, 456 2, 105, 130 1, 086, 714 828, 050 25, 672, 640 5, 154, 030 997, 808 105, 462 562, 275 258, 532 199, 638, 893 49, 261, 932 14, 477, 337	2, 748, 816 183, 242 2, 878, 808 157, 957 15, 271, 984 902, 896 700, 193 235, 224 20, 907, 600 8, 637, 710 783, 216 72, 414 619, 293 272, 646 183, 016, 518 45, 598, 950 15, 855, 861	248, 640 16, 524 4, 135, 800 178, 862 21, 757, 260 1, 205, 784 803, 004 257, 004 18, 477, 648 3, 387, 420 1, 199, 296 122, 472 810, 806 361, 584 178, 373, 425 37, 216, 052 14, 353, 271
51, 396, 527	50, 111, 979	6	68, 533, 824	73, 010, 662	į į	8	73, 816, 867
8, 087, 954 678, 596	8, 379, 158 110, 808	0	7, 938, 810 1, 527, 984	7, 509, 186 724, 626	_	8 8	6, 728, 885 347, 679
8, 701, 650	3, 489, 966	4	9, 466, 794	8, 233, 812	_	<u>.</u>	7, 976, 51
60, 098, 177	63, 601, 945	75, 452, 180	78, 000, 518	81, 244, 474	\$ =	3	80, 392, 681
609, 444 16, 700 1, 082, 323 1, 110 56, 778 9, 004 430, 596 7, 129	1, 891 53, 946 15, 977 642, 978 5, 708	25, 964 1, 379, 268 1, 647 53, 946 75, 408 2, 931, 573 6, 401	451, 980 20, 746 1, 173, 204 1, 911 62, 694 91, 678 8, 249, 048 7, 728	354, 780 25, 238 1, 649, 970 3, 015 138, 510 68, 218 2, 030, 136 7, 592			226, 962 37, 436 1, 765, 554 1, 401 49, 573 64, 836 1, 985, 310 2, 280
503, 496 17, 898	428, 652 23, 075	463, 644 83, 456	101, 817	454, 896 78, 825	46, 983	212, 548	199, 748
P93, 870	1, 125, 576	8, 449, 162	8, 920, 512	2, 643, 542	2, 216, 100	7, 602, 498	2, 284, 628
8, 765 45, 684 1, 061, 424 466, 000 2, 142, 774 2, 986, 240 863, 528	27, 213 98, 172 1, 150, 848 181, 818 1, 561, 518 2, 867, 673 335, 826	10, 004 48, 600 1, 549, 368 114, 643 1, 654, 844 6, 142, 854 093, 030	7, 869 30, 618 1, 566, 854 189, 222 2, 230, 740 4, 028, 160 497, 664	10, 764 33, 048 1, 714, 608 234, 674 2, 963, 142 3, 074, 341 360, 612 2, 132, 368	5, 753 19, 926 1, 849, 716 272, 168 8, 911, 328 8, 226, 839 373, 734 1, 113, 728	10, 030 42, 282 1, 805, 400 412, 849 8, 708, 180 270, 216 4, 633, 776	12, 170 50, 658 1, 812, 299 1, 013, 644 4, 387, 888 1, 492, 817 187, 514 4, 379, 984
18, 803 254, 780 1, 008, 855 93, 742 73, 386 1, 252, 142 7, 367, 520 504, 954 8, 320, 025 1, 255, 824	16, 193 291, 114 1, 399, 867 140, 202 62, 974 1, 119, 256 12, 280, 160 733, 374 8, 507, 646 1, 257, 282	283, 838 4, 275, 876 428, 168 59, 292 1, 206, 735 15, 103, 600 935, 064 8, 873, 899 1, 258, 740	18, 508 280, 422 5, 741, 718 528, 282 60, 750 1, 308, 452 10, 765, 760 1, 202, 864 4, 111, 808 1, 422, 036	94, 284 31, 286 535, 086 6, 134, 188 628, 898 76, 802 1, 200, 538 13, 712, 240 910, 998 4, 563, 820 1, 613, 634	59, 292 28, 325 538, 974 4, 862, 519 571, 050 63, 606 1, 256, 254 14, 940, 800 1, 129, 464 5, 760, 124 1, 919, 700	258, 552 42, 622 723, 654 6, 425, 626 679, 914 78, 732 1, 108, 250 17, 030, 720 1, 296, 648 4, 977, 480 1, 794, 798	299, 459 39, 902 503, 496 4, 568, 146 447, 606 91, 868 906, 958 13, 624, 000 757, 674 5, 787, 927 1, 802, 088

1, 255, 824 | 1, 257, 282 | 1, 258, 746 | 1, 422, 036 | 1, 613, 034 | 1, 919, 700 | 1, 794, 798 | 1, 802, 088 and \$16,466,652, for the years 1872 and 1873, respectively. The "everland exports" are included in the amounts of "all other merchandise" for these years. It is evident that "wool" was the principal "ever-

## Quantities and value of principal exports

Articles.	1873.	1874.	1875.	1876.	1877.
VICTORIA—continued.			<u> </u>		
Wool	74, 893, 882 27, 889, 596 8, 634, 752	88, 662, 284 80, 976, 182 10, 361, 382	85, 064, 952 29, 638, 142 11, 686, 776		98, 468, 208 27, 560, 574 13, 428, 126
Total exports of merchandise, dol- lars	43, 829, 433	48, 736, 080	49, 097, 520	51, 623, 147	49, 849, 943
Precious metals:  Gold, dust and bullion. { ounces dollars dollars dollars dollars  Total precious metals dollars	5, 336, 766 93, 312	1, 012, 153 19, 699, 039 6, 584, 328 24, 300 26, 807, 666	15, 444, 594 7, 187, 940 37, 420		521, 976 10, 157, 886 13, 680, 414 26, 730 23, 845, 030
Grand total exportsdoilars		75, 043, 746		68, 994, 941	73, 714, 973
SOUTH AUSTRALIA.				1	
Flour Stons dollars.  Wheat Southels dollars.  Copper Stons dollars.  Ores Stons dollars.  Wool Southels dollars.  All other articles dollars.	8, 582, 792 4, 477, 200 4, 692, 916 7, 938 8, 091, 932 30, 669 656, 586 85, 973, 434	65, 673 3, 807, 710 1, 794, 941 2, 083, 968 7, 425 2, 708, 478 25, 624 665, 334 39, 884, 024 9, 714, 654 1, 677, 092	85, 354 8, 982, 281 4, 478, 992 4, 040, 118 7, 663 2, 809, 566 29, 758 853, 030 44, 508, 674 10, 041, 732 1, 462, 274	79, 732 3, 872, 934 6, 894, 349 5, 693, 490 6, 203 2, 108, 754 25, 423 800, 928 43, 008, 795 8, 924, 418 1, 957, 578	62, 786 4, 256, 874 1, 113, 167 1, 416, 204 6, 761 2, 269, 620 20, 772 807, 246 50, 616, 962 10, 640, 484 2, 379, 824
Total exports of merchandise, dollars	22, 289, 239	20, 057, 236	23, 189, 004	23, 358, 132	21, 769, 752
Bullion and speciedollars	7, 760	740, 664	163, 782	48, 600	715, 878
Grand total exportsdollars	22, 296, 999	21, 397, 900	23, 352, 786	23, 406, 732	22, 485, 630
TABMANIA.					
Bark	8, 267 148, 230 11, 664 477, 738 418, 456 833, 896 826, 733 199, 260	5 455 107, 406 34, 020 583, 686 219, 688 211, 410 819, 145 205, 578	7, 288 196, 830 38, 880 566, 670 881, 079 272, 160 761, 444 267, 786	9, 738 270, 216 53, 946 664, 848 271, 496 159, 894 848, 405 224, 532	6, 266 162, 824 42, 768 715, 878 836, 346 232, 794 726, 018 188, 624
Oil: sperm { tuns } dollars	630 252, 720	264 112, 226	814	513 219, 672	450 162, 324
Potatoes { tons dollars dollars	7, 524 71, 442 807, 158	5, 396 54, 432 866, 444	8, 874 112, 266 430, 596	6, 607 88, 452 316, 872	9, 331 128, 304 354, 294
Tin: ore and smelted\{\} \text{tons} \text{dollars} \text{pounds} \text{dollars} \text{dollars} \text{dollars} \text{dollars} \text{dollars}	1, 069 4, 243, 463 1, 526, 040 1, 013, 991	159 85, 478 5, 050, 220 1, 704, 402 1, 081, 973	410 152, 118 6, 199, 248 2, 106, 810 1, 081, 253	1, 803 485, 514 6, 848, 517 2, 186, 942 919, 415	6, 485 1, 005, 534 8, 016, 396 2, 541, 294 1, 842, 336
Total exportsdollars	4, 842, 702	4, 497, 055	5, 826, 463	5, 540, 303	6, 876, 474
NEW ZEALAND.			 		
Flax (phormium)	7, 357 698, 868	2, 823 183, 222	728 5 <b>6</b> , 862	1, 033 89, 424	1, 296 94, 770
Barley Sushels Dushels	247 544 49, 487	90, 081 109, 836 135, 963	91, 622 99, 630 639, 325	218, 550 207, 036 1, 263, 927	107, 707 116, 154 354, 694
Wheat { dollars { bushels { dollars }	36, 478 538, 237 624, 996	149, 688 933, 814 1, 148, 904	453, 488 548, 095 558, 900	675, 746 686, 059 744, 552	232, 308 859, 795 992, 412
Total grain	587, 971 662, 018	959, 358 1, 408, 428	1, 279, 042 1, 111, 968	2, 168, 574 1, 637, 334	1, 322, 196 1, 840, 874

AUSTRAL ASIA—Continued.

including intercolonial trade--Continued.

•							
1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
101, 809, 809 28, 287, 086 15, 560, 750	95, 628, 281 25, 680, 256 12, 976, 544	112, 486, 206 81, 189, 050 13, 032, 365	103, 449, 800 26, 487, 486 14, 800, 255	108, 028, 601 28, 686, 636 15, 480, 461	109, 61 <del>6</del> , 610 29, 425, 356 15, 574, 166	119, 542, 407 30, 826, 494 16, 013, 038	106, 278, 038 24, 436, 080 16, 529, 119
53, 643, 710	47, 841, 198	58, 402, 912	55, 958, 679	60, 654, 161	60, 658, 441	68, 134, 624	56, 339, 346
373, 683 7, 268, 130 11, 616, 802 8, 260	305, 956 5, 951, 070 6, 575, 094 159, 894	241, 987 4, 703, 994 14, 189, 256 243, 000	413, 189 8, 003, 934 15, 022, 260 2, 333	373, 190 7, 275, 906 10, 731, 852 88, 880	417, 304 8, 093, 358 10, 941, 315 5, 846	189, 866 8, 697, 488 6, 070, 140 5, 832	19, 227, 132 15, 066
18, 895, 192	12, 686, 068	19, 136, 250	23, 028, 527	18, 046, 638	19, 040, 019	9, 773, 460	19, 242, 198
72, 538, 902	60, 527, 266	77, 539, 162	78, 985, 206	78, 700, 799	79, 698, 460	77, 908, 084	75, 581, 544
69, 755 3, 898, 692 3, 632, 720 3, 957, 012 4, 743 1, 418, 634 29, 070 761, 076 67, 982, 463 11, 748, 564 3, 676, 074	78, 980 3, 936, 114 3, 939, 379 3, 975, 966 4, 756 1, 294, 218 12, 665 656, 100 49, 402, 149 9, 646, 614 3, 540, 996	87, 930 4, 070, 736 8, 502, 955 7, 880, 004 3, 645 1, 133, 624 16, 388 548, 694 51, 544, 118 10, 036, 872 3, 263, 655	81, 110 3, 776, 706 2, 791, 893 2, 499, 498 4, 282 1, 280, 124 24, 336 758, 646 50, 336, 040 9, 291, 834 3, 498, 220	79, 190 4, 364, 766 3, 003, 019 3, 088, 530 4, 106 1, 265, 547 29, 317 970, 542 57, 926, 396 11, 666, 916 4, 263, 140	71, 444 8, 711, 582 1, 467, 125 1, 290, 816 3, 756 1, 141, 128 22, 571 776, 628 55, 463, 920 11, 697, 048 4, 409, 274	95, 324 3, 862, 728 9, 864, 288 8, 232, 840 5, 120 1, 398, 708 29, 553 1, 206, 738 64, 112, 240 12, 716, 676 4, 599, 198	
25, 460, 052	23, 050, 008	26, 933, 585	21, 105, 028	25, 619, 441	23, 026, 486	32, 016, 708	
565, 248	96, 714	159, 408	316, 686	429, 624	707, 130	174, 474	
26, 025, 300	23, 146, 222	27, 092, 998	21, 421, 714	26, 049, 065	23, 733, 616	32, 191, 182	
5, 802 151, 146 3, 941	6, 510 149, 688 2, 892	5, 747 137, 052	9, 899 235, 224 11, 664	10, 848 276, 534 36, 450	13, 413 451, 008 7, 290	13, 500 421, 362 12, 495	13, 761 406, 296 17, 010
736, 290 151, <b>6</b> 31	737, 748 109, 086	644, 922 181, 019	756, 216 184, 032	849, 042 323, <b>9</b> 06	856, 532 165, 108	831, 060 124, 856	801, 800 27, 695
140, <del>94</del> 0	76, 302	90, 882	99, 144	247, 374	76, 714	82, 620	16, 524
684, 848 160, 866	558, 622 128, 790	589, 722 150, 174	436, 180 115, 182	480, 287 131, 220	784, 087 656, 100	701, 164 174, 960	791, 379 134, 622
279 8 <b>5,</b> 53 <b>6</b>	245 <b>67,</b> 068	335 110, 322	342 93, 312	184 63, 180	96, 228	290 72, 414	146 32, 562
7, 827	10, 431	7, 155	14, 342	20, 676	16, 500	12, 318	24, 230
90, <b>896</b> 354, 780	181, 764 290, 142	73, 386 252, 720	179, 834 275, 076	298, 890 256, 122	170, 586 224, 046	150, 174 247, 874	281, 894 219, 186
6, 701	5, 109	4, 427	4,618	4, 109	4,616	4, 152	4, 751
1, 508, 858 7, 512, 662	1, 473, 552 7, 385, 002	1, 660, 662 9, 025, 228	1, 826, 388 8, 269, 724	1, 754, 460 7, 748, 512	1, 829, 304 8, 257, 765	1, 464, 804 8, 215, 101	1, 737, 936 5, 774, 142
2, <b>328</b> , 912 <b>832</b> , 538	1, 978, 992 1, 236, 408	2, 635, 092 1, 592, 788	2, 422, 224 1, 546, 355	2, 102, 922 1, 698, 521	2, 188, 944 1, 858, 824	2, 204, 496 1, 510, 927	1, 266, 030 2, 471, 688
6, 894, 253	6, 323, 346	7, 348, 000	7, 560, 119	7, 714, 715	8, 415, 576	7, 172, 690	6, 384, 548
722 52, 488	547 89, 866	1, 042 77, 274	1, 576 131, 706	2, 430 207, 522	2, <b>36</b> 3 182, 736	1, 737 138, 510	1, 190 79, 218
102, 472 119, 070 302, 772 287, 226 1, 701, 018 2, 058, 780	106, 692 132, 192 842, 649 542, 862 2, 518, 457 2, 531, 085	476, 520 412, 128 1, 908, 832 824, 742 8 120, 463 3, 075, 894	494, 911 388, 814 1, 499, 299 693, 036 3, 701, 268 3, 623, 822	113, 834 118, 584 979, 684 671, 652 8, 188, 621 3, 577, 932	144, 923 147, 258 1, 619, 768 828, 630 4, 897, 540 5, 187, 078	128, 450 121, 986 2, 474, 601 1, 299, 078 2, 706, 755 2, 122, 362	286, 456 163, 782 2, 817, 000 1, 265, 544 1, 359, 119 883, 548
2, 106, 257 2, 465, 076	8, 467, 798 8, 206, 139	5, 505, 815 4, 312, 764	5, <b>6</b> 95, 478 4, 705, 172	4, 281, 639 4, 368, 168	6, 662, 231 6, 162, 966	5, 309, 809 8, 543, 426	4, 462, 575 2, 812, 874
		ست سب	l <del></del>				

## Quantities and talue of principal exports,

Articles.	1873.	1874.	1875.	1876.	1877.
NEW ZEALAND—continued.					
Kaurı gum	2, 613 416, 988	2, 876 388, 800	3, <b>64</b> 8 678, 110	3, 234 530, 712	<b>4, 090</b> 57 <b>4, 93</b> 8
Preserved		2, <b>798, 432</b> 381, 510	830, <b>624</b> 85, 964	1, 045, 856 108, 864	2, 046, 464 263, 496
Frozen				••••••	
Potatoes { tons } pounds	11, 178	5, 346	548 13, 122	1, 471 25, 758	4, 684 69, 012
Tallow pounds dollars	4, 462, 416 326, 106	4, 865, 952 317, 844	4, 058, 880 271, 674	6, 919, 920 534, 114	10, 362, 240 761, 076
Timber of all kindsdollars	215, 784	230, 850	195, 372	244, 458	248, 833
Wool	41, 587, 049 13, 148, 244		54, 401, 540 16, 515, 232	<b>59</b> , 853, 454 16, 503, 588	64, 481, 324 17, 826, 254
All other merchandisedollars		8, 117, 059	3, 780, 740	3, 460, 126	3, 833, 078
Total merchandisedollars Gold, exclusive of speciedollars	17, 608, 134 9, 658, 264	18, 205, 415 7, 815, 758	21, 485, 234 6, 841, 908	21, 407, 620 6, 165, 396	23, 576, 686 7, 174, 818
Grand total exportsdollars	27, 266, 398	25, 521, 173	28, 327, 142	27, 573, 016	30, 751, 504
QUEENSLAND.					
Copper:  (tons	405	153	234	52	44
Ore		17, 982	27, 702	7, 290	8, 262
Smelted		1, 978 709, 560	1, 446 512, 730	2, 308 830, 574	2, 150 513, 216
Cotton \$ pounds	1, 373, 216	979, 875	314, 454	137, 812	221, 58 <b>9</b>
Hides and skinsdollars		159, 408 430, 596	39, 852 390, 744	17, 010 38 <b>7,</b> 342	33, 534 494, 748
Live stock (overland)dollars	1, 879, 362	1, 732, 104	1, 211, 112	900, 558	1, 252, 908
Meats preserved, not salteddollars	319, 788	316, 386	258, 552	463, 644	436, 428
Sugar	3, 206, 000 198, 288	9, 957, 712 526, 824	6, 416, 928 340, 200	1, 631, 728 104, 976	18, 309, 632 878, 202
Tailow	2, 149, 728	4, 147, 472 208, 980	3, 101, 728	4, 345, 600	<b>4, 834, 638</b>
Tin:	247, 374	200, 200	208, 980	327, 078	354, 780
Ore { tons { dollars	6, 006 1, 802, 574	5, 017 1, 231, 524	<b>4</b> , 246 <b>9</b> 26, 802	4, 580 807, 732	3, 547 <b>596</b> , 322
Smaltad Štons	260	1, 353	660	331	188
dollars	127, 818 132, 192	510, 786 129, 276	229, 392 130, 734	102, 060 179, 820	52, 002 178, 016
Twost Spounds	19, 763, 053	20, 859, 840	20, 145, 914	22, 919, 560	23, 980, 485
( doitals	<b>6</b> , 680, 070	6, 905, 574	<b>6, 6</b> 28, 760	7, 288, 056	7, 288, 542
All other merchandisedollars		487, 697	498, 280	722, 002	1, 284, 769
Total merchandisedollars			11, 416, 842	12, 138, 142	13, 366, 729
Gold dust and bars :	194, 896 8, 483, 648	375, 587 6, 590, 646	391, 515 7, 330, 854	374, 774 6, 940, 0t0	353, 266 6, 351, 506
Grand total exportsdollars	17, 216, 550	19, 957, 343	18, 747, 696	19, 078, 222	19, 718, 235
RECAPITULATION.			•		
New South Wales:			<b></b>		l <b>_</b>
MerchandiseGold	31, 068, 316 14, 203, 556	50, 561, 006 9, 438, 610	56, 266, 067 10, 179, 270	55, 166, 977	54, 711, 013
Total		59, <b>9</b> 99, 61 <b>6</b>	66,445, 337	8, 032, 122 63, 199, 099	9, 080, 424 63, 791, 437
Victoria:	' '	, ,			, ,
Merchandise		48, <b>736, 080</b> 26, <b>3</b> 07, <b>6</b> 66	49, 097, 520 22, 669, 054	51, 623, 147 17, 371, 794	49, 849, 943 23, 865, 030
Total	74, 269, 907	75, 043, 746	71, 767, 474	68, 994, 941	73, 714, 973
South Australasia:	99 990 990	20 857 924	99 100 004		
MerchandiseBullion and silver	22, 289, 239 7, 760	20, 657, 236 740, 664	23, 189, 004 163, 782	<b>23, 358, 132</b> <b>48, 600</b>	21, 769, 752 715, 878
Total	22, 296, 999	21, 397, 900	23, 352, 786	23, 406, 732	22, 485, 630
Western Australia: Merchandise	1, 381, 679	2, 131, 742	1, 931, 329	1, 930, 829	1, 814, 481
Precious metals	7, 290	1,021		•••••	
Total	1, 388, 969	2, 132, 763	1, 931, 329	1, 930, 829	1, 814, 481

AUSTRALASIA-Continued.

including intercolonial trade—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
3, 857	3, 728	5, 291	6, 114	6, 196	7, 200	7, 159	6, 581
<b>646, 38</b> 0	71 <b>6, 8</b> 50	1, 180, 008	1, 233, 468	1, 265, 544	1, 635, 876	1, 662, 092	1, 457, 028
3, 179, 904 361, 548	2, 881, 380 265, 842	1, 712, 480 187, 596	1, 074, 640 108, 864	2, 802, 108 264, 384 1, 779, 328 93, 798	3, 868, 868 353, 808 9, 863, 424 574, 938	3, 101, 392 287, 712 28, 457, 968 1, 677, 186	4, 047, 904 895, 605 33, 204, 976 1, 817, 154
10, 494	1, <b>957</b>	11, 127	13, 552	23, 810	11, 369	21, 531	15, 716
170, 334	42, 768	112, 752	156, 286	305, 208	130, 248	260, 010	187, 596
11, 242, 560	10, 383, 520	11, 365, 200	9, 312, 800	12, 184, 480	15, 812, 720	16, 886, 240	15, 533, 280
867, 510	707, 610	711, 990	586, 116	806, 274	1, 402, 596	1, 141, 128	860, 220
191, 484	175, 932	252, 720	359, 154	579, 798	736, 776	741, 150	764, 964
59, 270, 256	62, 220, 810	66, 869, 150	59, 521, 564	65, 356, 867	68, 182, 450	81, 139, 028	86, 507, 841
16, 003, 008	15, 174, 804	15, 402, 798	14, 162, 040	15, 162, 228	14, 655, 335	15, 880, 050	15, 577, 755
5, 040, 226	5, 838, 444	7, 075, 551	8, 004, 966	9, 401, 184	10, 659, 627	7, 218, 048	7, 756, 460
23, 289, 490	22, 421, 756	24, 927, 415	24, 610, 891	27, 878, 418	30, 149, 204	28, 867, 376	28, 816, 781
6, 046, 812	5, 514, 156	5, 050, 658	4, 844, 934	4, 479, 462	4, 337, 064	5, 306, 540	4, 328, 122
29, 336, 802	27, 935, 912	80, 874, 073	29, 455, 828	82, 357, 880	34, 486, 268	84, 173, 916	83, 144, 903
94 11, 178 546 159, 408 43, 532 5, 832 328, 050 1, 534, 802	32 4, 374 559 158, 436 26, 261 3, 227 346, 518 1, 516, 866	17 4, 374 848 93, 796 108, 260 16, 524 422, 334 1, 123, 632	370 95, 256 266, 289 42, 768 509, 328 1, 220, 346	11 3, 159 248, 029 38, 394 484, 056 1, 337, 472	213 11, 664 19 6, 318 80, 689 16, 524 662, 418 8, 026, 332	48 4, 374 89 10, 206 28, 856 5, 346 531, 198 2, 399, 382	19, 241 2, 964 610, 912 3, 255, 229
31, 104	119, 556	884, 912	203, 898	587, 087	758, 160	847, 004	863, 136
9, 261, 952	23, 102, 128	23, 920, 256	17, 016, 944	13, 673, 744	44, 542, 960	41, 802, 016	83, 918, 576
578, 340	1, 340, 388	1, 419, 120	1, 006, 992	740, 178	2, 620, 512	2, 211, 300	3, 508, 920
1, 677, 872	5, 779, 078	12, 909, 456	13, 612, 368	9, 554, 720	13, 623, 904	5, 877, 088	7, 632, 576
116, 154	351, 864	787, 320	866, 538	629, 370	872, 856	869, 860	474, 822
2, 627	3, 318 468, 504 868 116, 154 359, 640 22, 582, 834 6, 019, 110 911, 462	2, 708	2, 714	4, 002	4. 763	4, 828	2, 899
365, 472		520, 020	582, 228	1, 016, 226	1, 158, 624	992, 412	677, 484
235		482	537	660	713	852	288
60, 750		174, 474	224, 046	295, 488	294, 030	118, 298	84, 078
274, 560		204, 120	250, 290	148, 716	124, 902	59, 778	54, 918
21, 668, 122		24, 860, 728	25, 388, 013	24, 763, 140	43, 231, 696	85, 525, 477	42, 472, 071
2, 762, 502		6, 743, 250	6, 473, 034	6, 458, 940	11, 070, 487	9, 183, 427	8, 649, 842
1, 016, 888		875, 723	1, 175, 877	1, 403, 853	1, 628, 403	1, 897, 192	1, 855, 655
10, 244, 540	11, 716, 099	12, 769, 601	12, 710, 601	13, 144, 939	22, 251, 200	18, 229, 277	20, 043, 777
283, 592	281, 552	228, 120	250, 782	230, 090	193, 994	261, 824	808, 848
5, 115, 150	4, 978, 238	8, 988, 602	4, 495, 500	4, 032, 343	3, 892, 979	4, 485, 780	5, 439, 1 <b>6</b> 6
15, 859, 690	16, 689, 337	16, 758, 203	17, 206, 101	17, 177, 281	25, 644, 179	22, 715, 057	25, 482, 943
51, 396, 627	60, 111, 979	71, 377, 556	68, 533, 824	73, 010, <b>65</b> 2	88, 428, 283	83, 671, 846	73, 816, 867
8, 701, 550	8, 489, 966	4, 074, 624	9, 466, 794	8, 233, 812	8, 217, 774	5, 030, 492	7, 076, 514
60, 098, 177	63, 601, 945	75, 452, 180	75, 000, 618	81, 244, 474	96, 646, 057	88, 702, 838	80, 392, 881
53, 643, 710	47, 841, 198	58, 402, 912	55, 956, 679	60, 654, 161	60, 658, 441	68, 134, 624	56, 339, 346
18, 895, 192	12, 686, 068	19, 136, 250	23, 028, 527	18, 046, 638	19, 040, 019	9, 773, 460	19, 242, 198
72, 538, 902	60, 527, 266	77, 539, 162	78, 985, 206	78, 700, 799	79, 698, 460	77, 908, 084	75, 581, 544
25, 460, 052	23, 050, 40a	26, 933, 585	21, 105, 028	25, 619, 441	23, 026, 486	32, 016, 708	
563, 248	96, 714	159, 408	316, 686	429, 624	707, 130	174, 474	
26, 025, 300	23, 146, 722	27, 092, 993	21, 421, 714	26, 049, 065	23, 733, 616	32, 191, 182	
2, 082, 461	2, 031, 383	2, 421, 015	2, 443, 462	2, 833, 623	2, 172, 469	1, 971, 653	2, 170, 922
2, 082, 461	2, 431, 883	2, 421, 015	2, 443, 462	2, 833, 623	2, 172, 469	1, 971, 653	2, 170, 922

## Quantities and values of principal exports,

Articles.	1873.	1874.	1875.	1876.	1877.	
RECAPITULATION—Continued.						
Tasmania:						
Merchandise	4, 842, 702	4, 497, 055	5, 326, 463	5, 540, 303	6, 876, 474	
Precious metals						
Total	4, 842, 702	4, 497, 055	5, 326, 463	5, 540, 303	6, 876, 474	
New Zealand:	1 ' '	, , ,		i ' '		
Merchandise	17, 608, 134	18, 205, 415	21, 485, 234	21, 407, 620	23, 576, 686	
Gold	9, 658, 264	7, 315, 758	6,841,908	6, 165, 396	7, 174, 818	
Total	27, 266, 398	25, 521, 173	28, 327, 142	<b>27, 573, 016</b>	80, 751, 504	
Queensland:		' '	' '	<b>1</b> ' '		
Merchandise	13, 732, 902	13, 366, 697	11, 416, 842	12, 138, 142	13, 866, 729	
Gold dust and bars	8, 483, 648	6, 590, 646	7, 330, 854	<b>6, 94</b> 0, 080	6, 351, 506	
Total	17, 216, 550	19, 957, 343	18, 747, 696	19, 078, 222	19, 718, 235	
Grand total:	]	<b>†</b> • • • • • • • • • • • • • • • • • • •				
Merchandise	134, 252, 405	158, 155, 231	168, 712, 459		171, 965, 078	
Gold and silver	57, 900, 992	50, 894, 365	47, 185, 768	38, 557, 992	47, 187, 656	
Total	192, 153, 397	208, 549, 596	215, 898, 227	209, 723, 142	219, 152, 734	

#### FIJI.

## Value of imports from

Countries.	1873.	1874.	1875.	1876.	1877.
British Possessions				Dollars. 458, 838 1, 919	Dollars. 607, 748 4, 967 32, 965
Total imports				460, 752	645, 680

## Value of exports, domestic and

Countries.	1873.	1874.	1875.	1876.	1877.
British Possessions	Dollars.	Dollars.	Dollars.	Dollars. 323, 161 179, 650	Dollars. 481, 077 203, 668
Total exports				502, 811	684, 745
Domestic exports				392, 620 110, 191	555, 109 129, 636

## including intercolonial trade—Continued.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
<b>6, 394,</b> 253	6, 323, 846	7, 848, 000	7, 560, 119	7, 714, 715	8, 415, 576	7, 172, 680	6, 384, 548
6, 894, 253	6, 323, 846	7, 848, 000	7, 560, 119	7, 714, 715	8, 415, 576	7, 172, 680	6, 884, 548
23, 289, 490	22, 421, 756	24, 923, 415	24, 610, 894	27, 878, 418	30, 149, 204	28, 867, 376	28, 816, 781
6, 046, 812	5, 514, 156	5, 950, 658	4, 844, 934	4, 479, 462	4, 337, 064	5, 306, 540	4, 828, 122
29, 836, 802	27, 935, 912	80, 874, 073	29, 455, 828	32, 357, 880	34, 486, 268	34, 173, 916	33, 144, 903
10, 244, 540	11, 716, 099	12, 769, 601	12, 710, 601	13, 144, 930	22, 251, 200	18, 229, 277	20, 043, 777
5, 115, 150	4, 973, 238	3, 988, 602	4, 495, 500	4, 032, 842	3, 392, 979	4, 485, 780	5, 439, 166
15, 359, 690	16, 689, 337	16, 758, 203	17, 206, 101	17, 177, 281	25, 644, 179	22, 715, 057	25, 482, 943
172, 511, 133	173, 495, 769	204, 176, 084	192, 920, 607	210, 855, 959	235, 101, 659	240, 064, 164	
39, 323, 952	26, 760, 142	32, 809, 542	42, 152, 441	85, 221, 878	35, 694, 966	24, 770, 746	
211, 835, 085	200, 255, 911	237, 485, 626	235, 073, 048	246, 077, 837	270, 796, 625	264, 834, 910	

FIJI.

#### the several countries.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 646, 768	Dollars. 658, 034	Dollare. 877, 031	Dollars. 1, 314, 494	Dollars.	Dollars.	Dollare.	Dollars.
3, 684 13, 462	4, 763 28, 858	11, 129 14, 546	7, 203 19, 848				
663, 914	691, 155	902, 706	1, 341, 544				•••••

## foreign, to the several countries.

1878	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars. 748, 563 188, 761	Dollars. 642, 254 179, 280	Dollars. 1, 031, 124 84, 386	Dollars. 733, 467 112, 882	Dollars.	Dollars.	Dollars.	Dollars.
937. 324	821, 534	1, 115, 510	846, 849				
713, 667 223, 657	648, 828 172, 706	864, 652 250, 858	634, 895 211, 954				•••••

FIJI—Continued.

## Value of principat

Articles.	1873.	1874.	1875.	1876.	1877.
	Dollars.	Dollars.	Dollars.	Dollare.	Dollars.
Bage and sugar matsBeer, in wood and bottles	• • • • • • • • • • • • • • • • • • • •		11, 005 14, 215	•••••	
Boots and shoesBreadstuffs			9, 313 14, <b>6</b> 30		••••••
Drapery Fish			126, 037		
Galvanized iron			. 8,418 2,535	•••••	
HardwareLive stock			38, 117 34, 980		
Machinery			87, 828		
OilsPickles and oilmen's stores			92, 558		
Ship-chandlery			12, 163		
Spirits and wines			27, 927 13, 103		
TeaTimber, rough and dressed			14, 949		
Vegetables and green fruit			9, 130		
All other articles			46, 022		
Total imports			512, 930	460, 752	645, 680

## Quantities and value of principal

Articles.		1873.	1874.	1875.*	1876.	1877.
Bêche-de-mer				17, 618	12, 150	17, 010
Copra		************	••••••	825 114, 220	8, 748 223, 074	14, 774 385, 884
Cotton	S bales	**********	•••••	1.000	1, 125	769
Curiosities	dollarsdollars	•••••	••••••	161, 830	102, 546	76, 302
Fiber	bales	••••••	•••••	11, 572		
Fruit, green	•			487		
Maise	dollars		•••••	45, 065	58, 228	<b>38,</b> 783
Peanuts	{ bags	•		1, 216	510 2, 220	1, <b>9</b> 87 14, 580
Pearl shell	·			5, 165	6, 804	5, 346
Sugar	dollars	•••••••		5, 120	50, 544	78, 732
Wool ▲ll other		•••••	•••••	425 27, 759	724 37, 773	1, 215 <b>52</b> , 115
Total exports	dollars			890, 797	502, 811	684, 745
Domestic exports Foreign exports	dollars			890, 797	392, 620 110, 191	555, 109 129, 636

<sup>\*</sup> Domestic exports only.

**PIJI**—Continued.

## articles imported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.
	11, 178	17, 010	12, 150				
	20, 898	28, 674	31, 590		••••••	• • • • • • • • • • • • • • • • • • • •	••••••
	13, 605	15, 582	16, 038				• • • • • • • • • •
••••••	16, 524	20, 412	25, 272			• • • • • • • • • • • • • • • • • • • •	•••••
	175, 446	203, 578	249, 318	1			
•	6, 318	9, 720	8, 824			•••••	•••••
	7, 776	14, 580	34, 992				••••••
•••••	12, 150	15, 552	20, 894		• • • • • • • • • • • • • • • • • • • •		
	87, 480	98, 172	131,706				••••••
	22, 842	27, 216	20, 412			• • • • • • • • • • • • • • • • • • • •	
	10, 206	70, 956	300, 834	••••			••••
••••••	23, 814	34, 020	36, 440		•••••		• • • • • • • • • • • • • • • • • • • •
	10, 692	15, 066	17, 496				•••••••
	7, 776	12, 636	19, 440	••••		••••••	• • • • • • • • • • • • • • • • • • • •
	14, 580	17, 496	19, 926			•••••	••••••
•••••	6, 804	9, 284	9, 185	•••••			•••••
	19, 440	23, 328	22, 842				••••••
••••••	8, 748	<b>13, 60</b> 8	19 <b>, 44</b> 0	•••••		•••••	********
	6, 804	7, 776	10, 206			•••••	•••••
••••••	82, 076	. 17, 010	89, 424				••••••
	7, 776	10, 692	12, 150			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
	14, 580	10, 206	11,664			••••••••	
	153, 692	208, 177	226, 301	•••••	•••••		
663, 914	691, 155	902, 701	1, 341, 544				

## articles, domestic and foreign, exported.

1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
17, 982 16, 024 593, 892	12, 150 8, 797 298, 404	4, 860 8, 748 529, 740	4, 096 2, 960 416, 988				
1, 035 100, 602	.2, 201 213, 840 7, 776	2, 276 221, 180 11, 178	1, 755 170, 586 5, 832				
	4, 566 18, 122	8, 175 23, 814	6, 525 4, 549				
88, 584	15, 06€ 52, 002	25, 272 46, 656	25, 418 24, 786				
638 4, 554	2, 213 17, 010	2, 843 17, 058	608 2, 201				
5, 006 90, 896	4, 860 129, 762	3, <b>99</b> 5 11 <b>6</b> , 154	1, <b>973</b> 113, 238				
7, 436 67, 896	2, 478 46, 272	3, 183 103, 722	4, 714 <b>69, 0</b> 08				
987, 824	821, 534	1, 115, 510	846, 849		• • • • • • • • •		
713, 667 223, 657	648, 828 172, 706	864, 652 250, 858	634, 895 211, 954			••••••	

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## REPORTS

PROM THE

# CONSULS OF THE UNITED STATES.

No. 86.-NOVEMBER, 1887.

WASHINGTON: GOVERNMENT PRINTING OFFICE. 1887.

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## CONSULAR REPORTS

ON

# COMMERCE MANUFACTURES ETC.

No. 86.-- November, 1887.

## SUGAR INTERESTS OF AMERICA.

### [Circular.]

DEPARTMENT OF STATE, Washington, July 14, 1887.

To the Consuls of the United States

in Central and South America, West Indies, and Mexico:

GENTLEMEN: You are hereby instructed to report upon the following points, viz:

The production of sugar in your respective districts.
 The local charges, if any, on plantations (taxes, etc.).

3. Export duties, if any.

4. Import duties on foreign sugars.

5. Extent of sugar trade, with countries of shipment. I am, gentlemen, your obedient servant,

JAS. D. PORTER,
Assistant Secretary.

#### MEXICO.

REPORT OF CONSUL GREATHOUSE, OF TAMPICO.\*

#### THE SUGAR-CANE IN MEXICO.

By way of digression, I will state that of the twenty-nine States and Territories comprising the Mexican Republic, sugar-cane (Saccarum officinarum) is grown and thrives with comparative vigor in twenty-one, viz: The Pacific States of Sonora, Sinaloa, Jalisco, Territory of Tepic, Colima, Michoacan, Guerrero, Oaxaca, and Chi-

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<sup>\*</sup>A report for the district of Tampico, from Consul Greathouse, will also be found in its proper place in this number,

apas; the Gulf States of Tamaulipas, Vera Cruz, Tabasco, Campeche, and Yucatan; the central States of Mexico, Morelos, Puebla, San Luis Potosi, and Queretaro; and the northern border States of Coahuila and Nuevo Leon.

Mr. Garcia Cubas, in his excellent work on the Topography of Mexico, writes as follows:

Sugar-cane is grown in the warm sections, and especially in the State of Morelos. There exists a zone notably productive of this plant, comprehending the State of Colima, the southern parts of Jalisco, Michoacan, Mexico, and Puebla, the State of Vera Cruz, a large part of Guerrero, and all of the State of Morelos, and extending through the States of Oaxaca, Tabasco, Chiapas, Campeche, and Yucatan; but the State of Morelos is considered the central place of production. In other warm sections of the Republic sugar-cane is produced, but its cultivation is not found so extensive as in the zone described.

#### PRODUCTION.

The valuation of the average annual production of sugar since the year 1883 is stated by States, approximately, in the following table:

Value of the average annual production of Sugar, approximately, by States, from 1883 to 1886, inclusive.

States.	Valuation.	States.	Valuation.
Morelos Vera Cruz Michoacan Puebla Nuevo Leon Jalisco, and Tepic Territory Yucatan Oaxaca Sinaloa Tamaulipas Queretaro	1,500,000 950,000 650,000 640,000 460,000 450,000 418,000 850,000 270,000	Sonora Colima San Luis Potosi Tabasco Campeche and Isla del Carmen Mexico Guerrero Coahuila Chiapas Total	240, 000 180, 000 150, 000 180, 000 180, 000 56, 000 50, 000

#### EXPORTATION.

The exportation of sugar from Mexico is confined principally to a few coast-lying States, easily accessible to the Gulf ports of Vera Cruz, Frontera, and Progresso, and which produce a surplus above the amount required for local consumption, and are so remote from the populous centers and the central lines of railroad transportation as to be deprived of the advantages of the domestic markets. The low prices realized upon such exports when brought into competition with the better known grades of crude Cuban sugars in the European markets have not been such as to stimulate and encourage the traffic. The other costly and laborious alternative of transporting the heavy staple on mule-back across vast stretches of rugged and arid territory, in order to reach the central markets of the Republic, is hardly more inviting. Hence the anomalous situation is presented of sugar in some sections of the Republic being an article of essential and regular import, while in others it is a drug on the market.

In November last the sugar producers of Tabasco and Campeche convened for the purpose of endeavoring to remedy this unsatisfactory state of affairs. The exportation had heretofore been of a capricious and incidental character. They hoped to establish a permanent foreign market and to induce, by persistent and united effort, a more favorable appreciation of the Mexican product. The only

appreciable result of the conference was an appeal to Mr. Zapata Vera, the accomplished editor of the Mexican Economist, for all the practical advice and information on the subject that he could supply. The result of Mr. Vera's investigations induced him to recommend the Liverpool market in preference to that of New York, for the following reasons:

(1) England imposes no duty on crude sugar, while in the United States the tariff is  $1_{10}$  to  $2\frac{3}{4}$  cents per pound, according to grade.

(2) Rates of freight between Progresso and Liverpool and New York are approximately the same; the rate either to New York or Liverpool being about \$11 per ton of 2,500 pounds.

(3) The transportation facilities from Progresso to Liverpool are

more regular and frequent than those to New York.

In conclusion, he quotes the recent prices obtained for crude or

Muscovado sugar as follows:

Liverpool, 10 to 10% shillings per cwt. (112 pounds); New York quotations, 4% to 4% cents per pound.

#### AMOUNT OF EXPORTATION.

The total valuation of sugar exported during the fiscal year ending June 30, 1886, amounted to \$208,775.53. The weights, values, and exportation, by ports, are shown in the following table:

The official weights and valuation of sugar exported by ports during the fiscal year of 1885-'86.

· Ports.	Pounds.*	Valuation.	Ports.	Pounds.*	Valuation.
Vera Cruz Isia del Carmen Laredo de Tamaulipas Piedras Negras Paso del Norte Campecho Nogales Progresso Tonalá	598, 806 110, 029 47, 628 9, 702 73, 645 11, 468	\$ 86,051.90 13,88.00 8,868.27 1,711.00 926.00 915.00 513.00 500.00 333.3	Camargo Presidio del Norte Sásabe San Blas Matamoros Cabo de San Lucas Mier  Total	1,849 1,199 1,654 264 885 154	\$268.00 11 .00 120.00 40.00 10.00 8.00 8.00

<sup>\*</sup> Reduced from kilograms to pounds in the Department.

The exports of piloncillo (crude concrete) is included in the foregoing table, viz: 1,026,260, valued at \$29,889.

The countries of export for the fiscal year of 1885-'86 are officially stated as follows:

Countries.	Sugar.	Pilon (crude).	Total value.
England United States Germany Spain Colombia France	\$159, 342 19, 423 32 65	\$8,386 13,087 8,375	\$167,728 82,510 8,407 6,40
Total	178,887	27,888	203,773

Sugar exportation in Mexico is not a progressive branch of commerce, and nothing within my view indicates that it will receive in the near future any considerable impetus. The tardy introduction and diffusion of improved manufacturing machinery can only result, for some years, in furnishing an adequate supply of refined sugar for domestic consumption. When it is considered that domestic sugar, indifferently refined, finds a local market at prices ranging from 10 to 15 cents per pound, according to geographical location, no supplementary statement is needed to indicate that radical changes in the system of cultivation, manufacture, and modes of transportation must ensue before competition in foreign markets with the products of American and European refineries can be seriously inaugurated.

The present general remoteness of the places of production from the few lines of railroad transportation, and their inaccessibility to the ports of the Republic, precludes the conjecture that the production of the crude product will soon be largely augmented with a

view to exportation.

The valuation of the exports, by years, from July 1, 1880, to June 30, 1885, as compared with the value of exports for the fiscal year of 1885 and 1886, is shown in the following table:

## Exports of sugar for five years.

	1880–'81.	1881-182.	1882-'83.	1883–'84.	1884-'85.	Total.	Average per year.
SugarPiloncillo	\$817,9°7 50.614	\$266,075 42,467	\$198, 365 32, 182	\$177,260 11,767	\$34, 271 8, 608	\$9 8 \ \cdot 08 \\ 140,5\cdot 8	\$198,781 2,117
Total	868, 551	808, 542	230, 497	189,027	87,874	1, 184, 491	226, 898

WM. R. GREATHOUSE, Consul.

United States Consulate, Tampico, September 12, 1887.

#### ACAPULCO.

#### REPORT OF CONSUL LOUGHERY.

Production.—The production of sugar in this district is small, and there is no way of ascertaining accurately how much is made. It is computed at 50,000 pounds; not sufficient for home consumption. Very ordinary brown sugar is sold at 10 cents per pound, and white sugar of inferior quality at 15 cents. There are no first-class sugars.

Local charges.—The local charges on the plantations are 2 per 1,000

on the value of the property.

Duties.—There are no export duties. Import duties on foreign sugars are 7½ cents per pound. There are no shipments of sugars.

Miscellaneous.—The lands in this district are rich and productive,

but there is a deficiency of labor and enterprise.

Considerable sugar is raised in the district north of Acapulco, but of the quantity and quality I am not advised. I can only say that I have seen no good sugar on this coast, from the Arizona border to

Acapulco. Like everything else I have observed, the necessity, in this regard, of a liberal reciprocal treaty between the American and Mexican Governments is apparent.

R. M LOUGHERY, Consul.

United States Consulate, Acapulco, September 7, 1887.

#### GUAYMAS.

#### REPORT OF CONSUL WILLARD.

Production.—This consular district, which embraces the State of Sonora, cannot be called "a sugar-producing part of Mexico." A crude brown sugar (panocha) is produced to a limited extent, being manufactured in cakes of from 4 to 10 ounces each, but the amount manufactured is not sufficient for home consumption.

The sugar supply of Sonora comes principally from the States of Sinaloa and Jalisco to the south, and from the northern part of Lower California; also from the United States. That brought from Sinaloa and Jalisco is mostly refined white, while that from Lower California is crude brown (panocha). The sugar imported from the United

States is refined white sugar.

To the north of Guaymas the sugar-cane does not grow to perfection, and no large sugar plantations have ever been established. quantities of sugar-cane are grown on the bottom lands of the small streams and rivers, and the amount of crude brown sugar (panocha) produced will approximate 1,500 cargas of 300 pounds each. the south of Guaymas the climate and soil are more favorable and larger quantities of sugar-cane are grown and manufactured into panocha; the amount produced will not exceed 2,500 cargas of 300 pounds each.

This class of sugar is sold at the places of production at from 4 to

5 cents per pound.

In the bordering State of Sinaloa to the south, and the State of Jalisco, adjoining Sinaloa, sugar refineries or factories with improved machinery exist, from which Sonora is supplied with the greater portion of the refined sugar consumed in this State. The white refined sugar imported from foreign countries into Sonora is exclusively from the United States, and during the past year (1886) amounted

to upwards of 218,000 pounds.

The bottom lands of the Taqui and Mayo valleys, south of Guaymas, in this consular district, are said to be well adapted to the growing of sugar-cane, but as that section of country has been in possession and controlled to a great extent by the Indian tribes of the same name, who for many years have been in a semi-rebellious condition, no sugar plantations have been established therein, owing to the lack of security to life and property. This condition of affairs has now ceased to exist, as the Indians are subjugated and under control of the Federal and State authorities.

It can now be expected that the cultivation of the sugar-cane and manufacture of sugar will be in the future an important industrial

pursuit in that portion of Sonora.

Duties.—There are no duties levied on sugar exported from Mexico to foreign countries, and on this west coast sugar has never been classed as a staple article of export. The import duty on sugars from foreign countries (crude or refined) is 15 cents per kilogram, or 6% cents per pound.

Prices.—The prices at which sugars are selling at this port aver-

age during this year as follows:

The above prices are in Mexican silver dollars, one dollar of which is equivalent to 80 cents American money.

A. WILLARD, Consul.

United States Consulate, Guaymas, July 31, 1887.

#### LOWER CALIFORNIA.

REPORT OF CONSUL VIOSCA, OF LA PAZ.

Production.—The annual production of sugar in Lower California amounts to 2,400,000 pounds.

Charges.—There are no local territorial charges.

Duties.—By the taxation laws of "Portazgo" domestic sugar is taxed on its introduction at the places of consumption, or on its arrival at the port of shipment, at the rate of \$1 per 100 kilograms, net weight, equivalent to \$9.07 per Mexican ton of 2,000 pounds.

The import duties on foreign sugars are 15 cents per kilogram, gross weight, equal to \$142.94 per Mexican ton, including 5 per cent.

for internal revenue.

Trade.—During the fiscal year of 1886-'87 about 30,000 pounds of beet sugar were imported from Germany, and 55,000 pounds of crushed sugar from the United States, notwithstanding the amount of country production, which is mostly turned into panocha and muscovado for home supply, and that of the principal markets of the Gulf-bordering States of Sinaloa and Sonora.

JAMES VIOSCA, Consul.

United States Consulate, La Paz, Mexico, August 11, 1887.

#### PIEDRAS NEGRAS.

#### REPORT OF VICE-CONSUL MITCHELL.

Production.—The sugar product of this consulate district is of a low grade, called by the natives dulce or piloncillo. Barely enough is raised for home consumption. The amount exported is nominal.

Charges.—Charges or "taxes" differ in each municipality. The

people have to pay taxes to both State and municipality.

Duties.—The import duty on foreign sugar is 15 cents a kilogram, or a fraction over 7 cents per pound. The extent of the sugar trade with countries of shipment is limited to imports from the United States, and this is confined to the cut-loaf. Such imports come in bond and cannot be reported of much magnitude. It is consumed by hotels and the wealthier class of people, and is gradually increasing in demand.

United States Consulate, Vice-Consul.

Piedras Negras, August 3, 1887.

#### SINALOA.

#### REPORT OF CONSUL KELTON, OF MAZATLAN.

Production.—Sugar-cane was but little cultivated in the State of Sinaloa until the year 1877. The soil, however, is well adapted for such plantations, but the want of capital kept the farmers from taking due advantage of their lands, and the small amount of sugar-cane which they cultivated was either sold to the natives, to be eaten in its natural state, or converted into brown sugar, called panocha. This sugar is made by a very primitive process, in small round or square cakes, darker than the brown sugar known in the United States.

The common and rather modest sugar-cane mill where the panocha is worked is called a trapiche. The panocha is packed in crates, which are named cacastles, and the weight of each of the cacastles, when packed, must be 150 pounds. Two cacastles make one carga, or 300 pounds, which is the usual load for a mule, by which merchandise is carried into the mountain towns.

All calculations, sales, and contracts are made taking the carga, or 300 pounds, as the basis. The poor class of people are the consumers

of this panocha, or brown sugar.

Under the date of May 12, 1876, the government of this State published a decree by which a subsidy or premium of \$1 per 100 pounds of white sugar and \$2 per barrel of alcohol should be paid during five years to the first one who would establish a complete cane mill. Here begins the real production of sugar in this district, which was before supplied by the neighboring State of Jalisco, and by California and Europe.

The actual production consists, therefore, in white and brown sugar, and having explained the meaning of the word carga and its weight (300 pounds), this will be the basis for the following report of the production in this district by the factories in operation during the

past year.

The Aurora mill, situated in Culiacan, the capital of this State, was established in 1877 by Senator Joaquin Redo, a resident of Mazatlan, who received the premium awarded him during five years, under the decree of May 12, 1876. The Culiacan River affording great facilities for irrigation, that point was selected for the plantation and the site of the mill.

The machinery was imported from the United States and from France. The centrifugals came from Germany. Four boilers with 300 horse-power run the mill. The annual production of this mill is about 1,834 cargas, or 550,000 pounds. The sugar is white, of good quality, and is packed in bales called *tercios*, which contain six cones of sugar, weighing each an arroba, or 25 pounds, and are sewed up

in a rough cotton cloth. Two of these tercios, or bales, make one carga, or 300 pounds, the load for a mule. The price during the year fluctuates between \$2 and \$3.50 per arroba (25 pounds), but we may take as the general price current, \$2.50, or 10 cents per pound.

The Constancia mill, at Fuerte City, was the second mill that was

established in this State.

It is located on the bank of the Fuerte River, near the town of that name, in a small ranch called Mochicahui, and belongs to Mr. Francisco Orrantia y Sarmiento, one of the officials of that district. The machinery was imported from the United States and proved to be perfect, as the sugar manufactured is of the best quality. This mill has produced in one year 800,000 pounds of sugar, but its yearly average may be taken to be 624,000 pounds.

The price obtained for this sugar is the same as for the other mills, and the only difference to be noted in the manufacturing is that the sugar is packed in boxes of 150 pounds, and not in bales as at the

other mills.

All the lands on the banks of the Fuerte River are particularly

well adapted for the cultivation of sugar-cane.

There is a sugar mill, as yet unnamed, situated on the left bank of the Fuerte River, two miles from a small town named Ahome, not far from Topolobampo Bay, the property of Mr. Esteban Zakany, an American citizen. The machinery for this mill was imported from Germany. The mill was built in 1885, but did not commence to run until March, 1887, on account of the bad management, imperfections in putting up the machinery, and lack of the necessary capital. The mill can easily produce 7,500 pounds daily of excellent white sugar, but this year it has manufactured only 265,500 pounds. This sugar has been sold at 6 cents per pound.

No doubt the production of this mill next year will be about 750,-

000 pounds.

The production of white sugar in this consular district during the last fiscal year has been, as per above data:

Mill.	Bales.	Weight.
Aurora	8,006 4,166 1,750	Pouncis. 549, 900 694, 900 968, 500
Total	9,582	1,487,800

Brown sugar is produced in many places in this State by agriculturists who do not pretend to invest a large capital, and who find more profit in the sale of brown sugar than of white sugar, because the neighboring towns peopled by natives, purchase more of the former.

From the reports received from the different districts I estimate the product of brown sugar during the past fiscal year to have been in

the several districts as follows, in cargas:

Fuerte, 4,000; Sinaloa, 1,160; Badiraguato, 350; Mocorito, 670; Culiacan, 600; Cosala, 500; San Ygnacio, 300, Mazatlan, 800; Concordia, 125; Rosario, 800; total 9,305 cargas, or 2,791,500 pounds.

The price of this brown sugar runs from \$12 to \$15 per carga, or 4 to 5 cents per pound; and it is noticed that the class of brown sugar manufactured in Fuerte, Sinaloa, Badiraguato, and Culiacan districts is of better grade than that produced in the other districts,

which are in the southern part of this State. It is harder and does not melt and crumble during the rainy season, as is the case with the products of the southern districts.

A considerable portion of the brown sugar manufactured in the northern districts is sent to the State of Sonora, where it is sold for

better prices than are obtained in this State.

The production of panocha, or brown sugar, will certainly increase yearly, as it leaves a good profit, requires but little capital, and finds

a ready sale.

Taxes, etc.—The sugar-cane plantations in this district have no special taxes to pay, but the owners of the lands, whether cultivated or not, have two taxes to pay, known as the State tax (derechos del Estado) and the municipal tax (derechos municipales). The State tax amounts to \$6 per thousand dollars on the value of the property, and this is appraised by a committee composed of officials and merchants, but the majority are the government officials. On the amount appraised is added at the time of collection 25 per cent. as federal tax. In fact, all taxes levied by State or city are increased by this 25 per cent. federal tax. The municipal tax amounts to \$3 on each thousand dollars valuation, taking as basis the State valuation, addingthe inevitable 25 per cent. federal tax.

The sugar-cane mills pay their taxes in rather a complicated manner, and none pay the same amount; it depends on circumstances not easily explained. The mills mentioned pay more or less, as follows: A tax of \$120 per month while the mill is in operation, which averages about six months in the year, or \$720 per annum; a tax of \$2 for every bale of sugar (150 pounds), which is sold in the town

where the mill is located.

To collect this tax the tax collector appoints a committee, who decide how many bales may be sold during the year as the consumption of the town. This tax is collected in monthly installments, of course adding the 25 per cent. federal tax.

The "trapiches" for the manufacture of brown sugar are in operation three or four months in the year, and pay, according to their importance, a monthly tax of, to the State, from \$3 to \$4; to the city, from \$1.50 to \$2, adding the inevitable 25 per cent. federal tax.

We have now seen the taxes levied on the plantations and on the

mills. We will now examine the tax levied on the consumers.

All white sugar manufactured in Mexico, after leaving the mill, upon arrival at its destination pays the following internal duty:

To the State, on every 150 pounds, 75 cents; additional, 20 per cent., 15 cents; federal tax, 25 per cent, 221 cents; total, \$1.121.

To the city, on every 150 pounds, 75 cents; federal, 25 per cent., 18\frac{2}{3} cents; total on each bale, \$2.06\frac{1}{3}, equivalent to 1\frac{1}{100} cents per pound.

Panocha or brown sugar pays in the same way:

To the State, on each 150 pounds, 25 cents; federal tax 25 per cent., 71 cents; additional, 20 per cent., 05 cents.

To the city, on each 150 pounds, 25½ cents; federal, 25 per cent., 6½ cents; total tax on each 150 pounds, 69½ cents.

It must be noticed that any sugar arriving at a town and paying the above taxes, if it remains in that place a month, and not finding purchaser, is then sent to some other place. It will pay there the same tax again, and so on as many times as it may change destination.

Duties.—There is no export duty on sugar; it is free, but an invoice must be presented at the custom-house bearing a 50-cent internal-

revenue stamp.

According to the last tariff all imported sugar pays a duty of 15 cents per kilogram, gross weight, and 2 per cent. in internal-revenue stamps.

Besides the above federal tax or duty, the State collects a duty also of 5 per cent. on the amount paid as federal duty, adding to that the inevitable 25 per cent. additional.

The import duty is, therefore, about 8 cents a pound.

Trade.—The sugar mills established in this State have not as yet supplied the home consumption; hence have not made any shipments of sugar abroad, and it is to be noted that the prices obtained here are higher than could be obtained in foreign markets. In point of fact, these mills do not supply the home consumption, and during the past fiscal year there has been received from the adjoining State of Jalisco some 1,500 pounds, and from the United States some 8,000 pounds.

The time, however, is probably not far distant when this State will not only produce sufficient sugar for its own consumption, but

will be able to export a large quantity.

Conclusion.—This report has been delayed considerably on account of the great difficulties of obtaining reliable information; the manufacturers and agriculturists fearing that the products of their mills and plantations being known the Government will increase their taxes, as was the case in 1871, when the governor of the State requested the planters to report to him for statistical purposes the number of cane rows under cultivation, and a month later a new tax was imposed on sugar-cane plantations, called the "ley de surcos," or "row law," which obliged many poor laborers to abandon their fields. EDWARD G. KELTON,

United States Consulate, Mazatlan, September 30, 1887.

#### TAMAULIPAS AND SAN LUIS POTOSI,\*

Consul.

REPORT OF CONSUL GREATHOUSE, OF TAMPICO.

Production.—In the States of Tamaulipas and San Luis Potosi no accurate official data is obtainable respecting the annual production of sugar. The production in the State of San Luis Potosi of crude brown sugar (pilon) for the year of 1886-'87 aggregates 6,000 t ons, and the yield of white sugar, 2,500 pounds; equal to approximate valuation of \$185,000. The production of Tamaulipas during the same period aggregated 9,000 tons of crude and 50,000 pounds of white sugar, with a total approximate valuation of \$275,-000, thus making the aggregate production of both States 30,075,000 pounds, with a valuation of \$460,000.

Taxes.—In Tamaulipas and San Luis Potosi agricultural lands are very irregularly appraised. It is considered, however, that the general appraisement of such lands is considerably below their actual value. On the appraised valuation the taxes for all purposes, State and Federal, aggregate approximately \$1.75 per hundred dollars.

Duties.—Sugar is not subject to State or Federal export duty. Common or refined sugar of all classes is subject to an import duty of 15 cents per kilogram, gross weight, or approximately 6% cents per pound avoirdupois.

Trade.—The only exports from Tamaulipas are through the frontier ports of Laredo de Tamaulipas, Mier, Camargo and Matamoros.

<sup>\*</sup>A report on the sugar industry for all Mexico, from Consul Greathouse, will be found in this number also.

The total exportation from these ports during the year ending June 30, 1886, and consigned to the United States, aggregates 116,255 pounds, with a valuation of \$3,654.27. At Tampico sugar is not an

article of export.

Cultivation.—Considering that the States of Tamaulipas and San Luis Potosi together embrace an area of 55,377 square miles of territory, a considerable part of which is adapted to the growth of sugar-cane, and that the total value of their sugar production aggregates approximately only \$460,000, it is clearly apparent that the cultivation and production of sugar is in its infancy. In fact, noting a few exceptions, sugar-cane is cultivated merely as an incidental crop; that is, no large tracts of land, as in Louisiana and Cuba, are devoted exclusively to its culture. In many sections of the State of Tamaulipas, notably in the southwestern part of the State, and especially on the alluvial lands bordering the Panuco and Tamesi Rivers, sugar-cane seems almost indigenous. In Louisiana, as is known, the plant under the stimulus of industrious and scientific cultivation fails to maintain a vigorous growth longer than three years from the period of original planting. Here in most instances seed planting is renewed in every seven or eight years, but on some haciendas I have seen cane of vigorous growth spring from stubble twelve years old. The most primitive methods of cultivation are employed. The forked stick with an iron prod on the end, such as the Egyptians employed two thousand years ago, is the implement used in plowing. The seed-cane once planted, aside from the annual spring plowing the plant receives little further attention until it has reached maturity and is ready for grinding. The system employed in manufacturing the saccharine into sugar is entirely divested of the costly and scientific apparatus that is deemed essential to its proper manufacture in other countries.

Mode of manufacture.—The cane is ground between rude wooden rollers, turned by horse-power, and not more than 55 per cent. of the saccharine matter is extracted from the stalk. With improved machinery and heavy rollers this percentage could be increased to about The juice undergoes no purifying process, but is simply strained, and then boiled in kettles to a point far beyond that required for granulation, until a solid mass is obtained, leaving no residue of This crude product is known in the phraseology of the country as "pilon" and has a domestic value of 12 to 2 cents per pound, and is consumed by the mass of Mexicans. Until recently no facilities existed for refining this product, and white or refined sugars are imported from the States of Morelos, Mexico, Puebla, and In this district, as in all the sugar-producing regions of Vera Cruz. Mexico, "pilon" is largely used in the distillation of "Aguardiente de Caña," a colorless ardent spirit that is much affected by the natives and forms the basis of adulteration of the inferior grades of wines and liquors.

Improvements.—In concluding this report I desire to call attention to improvements recently inaugurated by an accomplished and progressive Mexican citizen, Señor Don José M. Rascon, who, being technically and theoretically familiar with the planting and manufacturing system in vogue in Louisiana and Cuba, has determined to apply that system to his hacienda in San Luis Potosi. He has recently set up, at a cost of \$250,000, a centrifugal sugar mill, and, with a thousand acres highly cultivated in cane, proposes to grow and manufact-

ure into refined sugar on an extensive scale. The experiment of Mr. Rascon will be watched with interest, and if successful will doubtless find many imitators.

WM. R. GREATHOUSE, Consul.

United States Consulate, Tampico, September 12, 1887.

#### VERA CRUZ.

#### REPORT OF CONSUL HOFF:

Production and taxes.—There is not enough of sugar raised in the southern part of the State of Vera Cruz to supply the home consumption, and what is made is made in a very crude way; but in the center of the State, around Orizaba, Cordoba, and Jalapa, there is considerable raised. Gentlemen of the best information think there are about 6,000 acres under cane cultivation, which pays to the State of Vera Cruz a tax of \$1.46 per acre. Each acre of cane is supposed to make one ton of sugar and about 200 gallons of aguardiente.

Duties.—There are no export duties. Import duties are 15 cents

per kilogram, gross weight.

Trade.—The trade with foreign countries for the fiscal year ending June 30, 1887, was as follows:

	Kilograms.
England	 . 1,915,765
United States	 . 31,681
Spain	 . 10.452
France	 . 399
Germany	 . 210
Total	1 958 507

JOSEPH D. HOFF, Consul.

United States: Consulate, Vera Cruz, September 21, 1887.

#### YUCATAN AND CAMPEACHY.

#### REPORT OF CONSUL GILKEY, OF MERIDA.

Production.—Sugar-cane cultivation is carried on in the northern part of Campeachy and southern and eastern part of Yucatan under great difficulties, being situated all along the boundary lines between the territory occupied by the revolted Indians of Chan Santacrux, and subject or exposed to their incursions at all times.

The number of sugar cane plantations, or "ranchos," is estimated at about three hundred. The absence of any regularly established bureau of statistics makes it exceedingly difficult to arrive at any but an approximate calculation of the number of plantations in this State and Campeachy.

The amount of land under sugar-cane cultivation is estimated at

about 80,201 "mecates," or 8,120 acres.

Cane cutting and sugar making commence in the months of December and January, and end in the months of May and June, the production of sugar varying, of course, with the amount of rain-fall.

The amount of sugar produced is estimated at 1,500 pounds per acre, or 4,125 tons for the entire district, all of which is consumed in

Yucatan and Campeachy.

Machinery.—There are 282 plants of machinery in Yucatan, and about 60 in Campeachy, of which 306 are of American and 36 of English make. An apparatus for making refined or cut-loaf (cubes) sugar has just been introduced by the Messrs. Duarte, of this place. Their object is to produce enough refined sugar to avoid the necessity of

importing any sugar.

Duty and taxes.—The demand for the common grades of sugar being supplied by the production, none but refined or cut-loaf sugar is imported, on which there is a Federal tax of 7½ cents per pound, a State tax of 25 per cent. ad valorem, and a municipal tax of 12½ cents per 100 pounds. The amount of this sugar imported is from 30,000 to 40,000 pounds; the United States being the only country from which it is imported.

By a special decree of the legislature all sugar plantations are exempted from the payment of taxes. It is claimed that the perils to which planters are exposed on account of the proximity to the Indian frontier are fully offset by the advantages gained by this exemption.

JOHN M. GILKEY, Vice and Deputy Consul.

United States Consulate, Merida, September 9, 1887.

### CENTRAL AMERICA.

#### COSTA RICA.

REPORT OF CONSUL WINGFIELD, OF SAN JOSÉ.

Production.—Sugar-cane has been grown in Costa Rica for a number of years, but it is only within the last ten years that attention has been turned to the manufacture of a better class of sugar. There are now about eight plants where the Jamaica train and centrifugal processes are used.

All sections of the Republic are well adapted to the growth of sugarcane. The varieties grown are the "Cuban," the "Yellow Cane," and the "Striped;" the latter being used mainly for feeding stock. Plantations are made at very small cost by laying cuttings of cane, each about 2 feet long, in trenches and covering from 6 to 12 inches, the latter depth being considered best. After shoots show up, one working is given to clear the grass; no further working is needed. The first cutting is made within eighteen months, and the plantation, with proper care, lasts at least fifteen years without renewing. Of the sugars made the large clear crystal is worth 7 cents per pound, and the light brown about 4 cents. The residue, molasses, etc., is boiled down, molded into large cakes, and used for making rum. Much the largest product, however, is in the shape of "dulce"—a crude sugar, dark brown, in cakes of from 2 to 4 pounds, made by small farmers in

wooden roller mills and open kettles. This "dulce," sold at from 3 to 5 cents per pound, is used by the masses of the people both in town and country, and is also largely used in the manufacture of rum.

The latest statistics for the year 1884 show that at that time there were about 12,000 acres of land planted in cane and the products were 896,300 pounds of sugar and 16,149,400 pounds of dulce.

The following table shows the production by provinces:

Provinces.	Elevation.	Population.	Acres.	Sugar.	Dulce.
San José Alajuala Cartago Heredia Guauacaste Puntas Arenas Limon	Feet.  3, 800 2, 800 5, 000 8, ≥00  Pacific coastdo	58, 246 46, 785 31, 152 6, 472 15, 463 7, 898 1, 872	3,900 5,030 1,200 1,000 700 170 (*)	Pounds. 1 0,000 750,000 25,400 900	Pounds. 5, 476, 800 7, 267, 700 879, 100 1, 947, 400 847, 000 225, 900
Totals		187,888	12,000	896, 300	16, 158, 400

\* None. Recently settled.

It is estimated that the population increases  $2\frac{1}{2}$  per cent. annually, and is now computed at something more than 200,000 besides the Indians of Talamanca and Guatuso. It is safe to say that the sugar industry is being developed each year with a greater ratio of increase than that of population. The Government purchases annually for the manufacture of rum (aguardiente), of which it holds the monopoly, about 3,000,000 pounds of dulce and the second product made at the mills after extracting the first and second classes of sugar. A great deal of cane is fed to horses, hogs, and cattle, so that no inference can be drawn from the figures given above of the actual yielding capacity of a sugar plantation. I am told, however, that it is not uncommon to obtain 100 quintals from an acre, of which 50 quintals (5,000 lbs.) would be sugar and 50 quintals, the second product, for rum.

Taxes.—It is the policy of the Government of Costa Rica to develop sugar production. There is no land tax, and no local charge or tax of any kind on the plantation or the products or "plant" for manufacture, and up to this time those who wished to import machinery for the manufacture of sugar have without difficulty obtained a special concession, by which they could do so free of duty.

Duties.—There are no export duties on sugar. None is exported, however, as all that is made is needed for home consumption. Nor is it probable that sugar will be made for export for a number of years in Costa Rica; not, in fact, until there is direct railroad communication with the sea-ports, and the population of the country is largely increased. The import duties on foreign sugars are: Refined, 3½ cents (American) per pound on the gross weight; unrefined, equivalent to 2 1-5 cents per pound gross weight.

Trade.—There is annually imported about 290,000 pounds of sugar, mostly refined, as there is no sugar refinery in the country. The United States sends 160,000 pounds; England, 55,000 pounds; the Central American States, 60,000; and Fra.ce and Germany together,

15,000.

J. RICH'D WINGFIELD, Consul.

United States Consulate, San José, September 27, 1887.

#### GUATEMALA.

#### REPORT OF CONSUL-GENERAL HOSMER.

Production.—The production of sugar, of white and inferior qualities, in the Republic of Guatemala, during the years 1880–1886 and the first six months of 1887 was as follows:

[The quantities in this table were reduced from kilograms to pounds in the Department.]

Years.	White.	Muscovado.	Total.
1890	2,788,222 8,864,640 4,599,850 4,165,465 4,101,529 5,291,559	Pounds. 758, 448 889, 003 894, 568 1, 045, 400 1, 250, 455 8, 142, 624 16, 879, 181 8, 868, 799	Pounds. 8, 968, 046 3, 627, 225 4, 255, 208 5, 645, 250 5, 415, 920 12, 244, 144 21, 670, 740 7, 017, 559

Taxes.—The local charges on plantations (taxes, etc.) are \$3 annually upon each \$1,000 worth of product declared by the proprietors.

Duties.—There are no duties charged upon the export of sugars.

The import duties on foreign sugars are as follows: Refined sugars, per quintal, gross weight, appraised at \$12; duty, 70 per cent., \$8.40. Inferior classes, gross weight per quintal, appraised value, \$8; duty, \$5.60.

Extent of sugar trade, with countries of shipment.

Years.	Gross weight.	Value on shipboard.
1890	1,874,781	\$41,065.10 1,560.80 82,485.06 228,136.09 151,827.80 317,149.10 852,555.50

James R. Hosmer, Consul-General.

United States Consulate, Guatemala, August 25, 1887.

#### HONDURAS.

REPORT OF VICE-CONSUL BERNHARD, OF TEGUCIGALPA.

Production.—The production of sugar in Honduras is very reduced. There is no exportation at all; on the contrary, white granulated sugar, called "muscovado," is imported from the neighboring Republics of Salvador and Nicaragua.

Charges.—There are no local charges on plantations.

Duties.—No import duty is paid for sugar made in Central America, but for sugar from other countries, white or brown, the duty is

3 cents per pound. There is no duty on sugar exported.

Trade.—The quantity imported from Salvador and Nicaragua is about 200,000 pounds per annum. The majority of the natives use country-made sugar in small blocks, weighing about a pound and a half, of good grain, but wanting in refining, It is impossible to calculate the quantity produced, as no returns of cane culture are available, and many sugar-cane farms in contract with the Government produce only rum, raw and unwholesome, which must all be delivered to the Government at the price of 6½ cents a quart. The Government retails it to the people at a very large profit.

United States Consulate, Tegucigalpa, September 10, 1887. GEO. BERNHARD, Vice-Consul.

#### RUATAN AND TRUXILLO.

#### REPORT OF CONSUL BURCHARD.

Production.—The amount of sugar produced in this consular district is not sufficient to satisfy the local consumption, and importations are made from the United States and from British Honduras to supply the deficiency. Sugar-cane grows here to perfection, and yields large crops for many consecutive years without replanting. Specimens of Honduras cane are often carried to foreign countries and exhibited as curiosities, on account of their large size and saccharine richness. Mr. Gustave Coindet, a Swiss gentleman, has the only cane plantation in this island worthy of mention. He produces sugar of excellent quality, which is in constant demand for home consumption at from 8 to 10 cents per pound.

The want of reliable labor offers a serious drawback to the development in this district, not only of sugar industries, but of coffee, rice, and other tropical productions, for which the soil and climate

are admirably adapted.

Charges.—There are no direct local charges on plantations. The only direct taxation is for the support of the public schools, roads, etc.

Duties.—There is no export duty on sugar. The import duty amounts to about 3 cents per pound.

WM. C. BURCHARD,
UNITED STATES CONSULATE, Consul.
Ruatan and Truxillo, August 30, 1887.

#### NICARAGUA.

#### MANAGUA.

#### REPORT OF CONSUL WILLS.

Products.—The production of sugar in this consulate district is estimated at 1,000 tons, mostly consumed in the country.

Taxes.—There are no local charges or taxes of any kind.

Duties.—There are no export duties. Import duties on foreign sugars, 4 cents per pound, currency of the country, Peruvian sol, value, 72.7 cents, American gold.

# Extent of sugar trade, with countries of shipment.

[From the report of the minister of finance.]

Countries	1885.		1896.	
Countries.	Quantities.	Values.	Quantities.	Values.
California Colomb a Central America North America	Quintals. 428.81 1,676.49 220.00 500.00	\$3, 890, 48 11, 611, 92 1, 160, 00 2, 500, 00	<i>Quintals.</i> 928, 20 18, 88	\$7,885.60 107.04

The refuse from the production of the sugar is distilled into aguardiente (rum), by contract with the Government, at 35 cents per gallon, and is a monopoly. The amount paid by the Government for such rum was \$116,716 for 1885 and \$114,721 for 1886.

CHARLES H. WILLS,

Consul.

United States Consulate, Managua, Nicaragua, August 8, 1887.

# SALVADOR.

#### REPORT OF CONSUL DU PRÉ, OF SAN SALVADOR.

Production.—The annual production of sugar in Salvador is about 18,000,000 pounds. Of this amount 10,000,000 pounds are exported, two-thirds of which go to the United States and the balance to Europe, to England chiefly.

Taxes.—There are no local taxes. On the contrary, the Government pays a bounty of 50 cents per quintal of 100 pounds on exported sugar. This bounty is paid with orders on the treasury, now worth, perhaps, 25 cents on the dollar.

Duties.—There are no export duties. There is an import duty of

10 cents per quintal, but no sugar is imported.

Crude sugar, "mascobado," is retailed in market at 11 cents, and

clarified at 11 and 12 cents per pound.

The cost of shipping sugar is as follows, per quintal: Mascobado 8 cents and white sugar 12 cents; wharfage, cartage, 3 cents; shipping, 20 cents, and sacks 3) cents; in all, from 60 to 75 cents.

L. J. Du Pré, Consul.

United States Consulate, San Salvador, September 10, 1887. 94 A—No. 86——2

# SOUTH AMERICA.

# BRAZIL.

#### REPORT OF MINISTER JARVIS.

Production.—Brazil may be divided, industrially, into three divisions: The rubber-producing district, the sugar-producing district, and the coffee-producing district. These three divisions cover the whole eastern slope of the Empire, from its northern to its southern limits; each one being distinguished by its leading product, and very largely dependent upon it for its prosperity. Of course each has its smaller productions and industries which, in the aggregate, are of much importance, but none of these begin to approach the leading industry of the district to which it belongs.

The first or rubber-producing district embraces the valley of the Amazon and its tributaries, and extends along the coast from the western boundary of the Empire as far south as the vicinity of

Maranham.

The second or sugar-producing district extends from Maranham southward to the vicinity of Rio de Janeiro, a distance of nearly 1,800 miles. It is to this district and its leading industry, sugar, that I wish to call attention.

This district embraces eight provinces (answering to States with us), namely: Bahia, Sergipe, Pernambuco, Alagoas, Parahyba, Rio

Grande do Norte, Ceará, and Maranham.

The aggregate population of these provinces exceeds 5,500,000. The district contains many cities, Bahia and Pernambuco being among the number. Soil and climate conspire to make it one of the finest sugar-producing countries in the world. Stimulated by paying prices and ready markets, the production would be very great, almost beyond easy estimation. But of late years, I am informed, the production has been greatly diminished and almost profitless. Several causes have combined to bring about this result. Among them may be mentioned the large production of beet sugar, the high tariffs demanded in many of the sugar-consuming countries, and the Brazilian export tax. How far any one of these causes, or all of them combined, or even others, have affected the industry I need not estimate, as my purpose will be served by a simple statement of its condition.

However much men may differ in their speculations as to the cause of the unprofitable condition of the industry, they will all concur in the statement that its condition is bad, and that it is seriously affecting the general prosperity of the country. The Imperial Government, attaching great importance to this industry, has from time to time, in its efforts to sustain and improve it, granted subsidies to companies establishing factories with improved machinery and methods for manufacture; but so sharp has been the competition in other sugar-producing countries that, in spite of this Government aid, the industry is on the decline. Such is the unprofitable condition of the district are occupying their time in studies and efforts for its improvement.

This district furnishes the national legislature and the National Government with the leaders in public affairs, so that it exercises a

large influence in the councils of the nation.

One method proposed to be resorted to for the improvement of the industry, as I am informed, is the abolition of the export tax. Another, as I am also informed, is an effort to introduce Brazilian sugar into the United States, free of import duties, by granting similar exemptions to some of the peculiar productions of our country.

I beg to call attention to the accompanying report from Mr. Santos. Mr. Santos was a student at Yale College, and spent several years in the United States. He is well and favorably known here, and his report will give an idea not only of the sugar industry, but also of the trade, traffic, and commerce of the provinces, including importations of foreign goods and the means of transporting them into the interior.

THOMAS J. JARVIS,

Minister.

United States Consulate, Rio de Janeiro, September 20, 1887.

# SUGAR-PRODUCING PROVINCES OF BRAZIL.

[Report of Mr. Santos to Minister Jarvis.]

I have the honor to submit to your excellency the following descriptive sketch of the principal sugar-producing provinces of Brazil:

# PROVINCE OF BAHIA.

Description.—The population of the province of Bahia is estimated at 1,800,000. The capital, St. Salvador, situated in latitude 13° 0′ 37″ west of Paris, contains a population estimated at 180,000. Its harbor has a safe anchorage for vessels of any size

and tonnage, and can be reached at any time of the day or night.

Sugar production.—The leading article of export of Bahia is sugar. The production and export of this commodity exceed all other industries, but the extensive development of its manufacture by improved processes in Europe, and the consequent low price of the article, have exerted such influence upon growers by competition that the culture of the sugar-cane has been much neglected of late years, and although the soil is well adapted to this culture the production has visibly declined.

In the fiscal year 1885-'86' there was exported through the port of St. Salvador 35,000 tons of raw sugar against 74,000 tons in the fiscal year 1883-'84, when the crop

was more abundant and prices higher.

The soil of this province is very rich, and the producing capacity of sugar can

be developed to an enormous extent if prices and capital would assist.

Bahia possesses many sugar factories (enyenhos) of old and primitive character. Concessions have been granted by the Brazilian Government for the erection of several central sugar factories, using improved machinery, and for which subsidies were given varying from 6 to 8 per cent.

The sugar produced by the vacuum system is of a crystallized form, and is mostly consumed in the country. The raw sugar, which has a strong grain and constitutes the export, is packed in bags of 60 kilos each (132 pounds) and thus shipped to for-

eign porta.

Bahia, like other sugar-producing provinces, is laboring under great difficulties, owing to the depression of the market generally in spite of the Government de-

creeing the exemption of export duties.

Railways.—The facility for reaching every part of the interior is all that can be desired in the province of Bahia, owing to its 800 miles of railroads, of which upwards of 587 miles are in actual traffic and the balance are in construction. These roads are as follows:

Bahia and San Francisco (gauge 5 feet 3 inches). The main line with the above gauge has 764 miles in traffic. The ramal of Timbó and the prolongation of the

main line, with a 8 feet 81 inch gauge, will have 282.5 miles, and to reach the river San Francisco, the terminus of the road, 82 miles more will be constructed.

Bahia Central (gauge 3 feet 6 inches), with 1871 miles, of which 179 are in actual

traffic.

Nazareth Railway (gauge 3 feet 31 inches) has 22 miles in traffic.

St. Amaro River Railway (gauge 3 feet 31 inches) has 22 miles in traffic.

Bahia and Minas (gauge 3 feet 3; inches), to the limit of the province of Bahia;

has 884 miles in traffic.

Navigation.—The province of Bahia has several navigable rivers which afford great facility for transportation; the climate, especially that of the interior (Sertão), is good, and with an increase of population the commerce would develop into one of great importance.

During the fiscal year of 1885-'86, 485 steamers and sailing vessels, measuring 558,083 tons, entered the port of St. Salvador from foreign countries, whilst 293 Brazilian vessels, measuring 196,300 tons, and 148 foreign vessels, measuring 151,939

tons, entered from other provinces of the Empire.

Imports and exports.—The total imports of foreign goods through the port of St. Salvador during the fiscal year 1885-'86 amounted to \$10,470,758.50 (exchange at 50 cents per milreis), and the exports to \$7,574,828. The total export to other provinces of the Empire during the same period amounted to \$2,900,350, and the imports to \$1,838,450.

Trade with the United States.—No official report can be produced as to the importation from the United States into Bahia during 1885-'86. We must therefore refer to the report of merchandise as classified in the tariff of the customs for the fiscal year 1883-'84, which amounted to \$837,301.68. Exchange 50 cents per mil-

reis.

The trade with the United States is on the increase. Many manufactured articles are being introduced into the country, besides flour, lard, kerosene, naval stores, pine, domestic machinery, agricultural implements, locomotives, etc.

The railways of the country employ exclusively American locomotives, and the

cars imported serve as models for those manufactured in the country.

Such are the favorable conditions of this important sugar-producing province, to which is destined a great future if a wise policy, based on the free exchange of products with other nations, especially with the United States, be resorted to in order to save it from years of prostration.

Confiding in the patriotic efforts of their legislators, the people of Bahia are anxiously awaiting when a step in this direction be realized, which would be the

best factor of the future progress of their province.

### PROVINCE OF SERGIPE.

**Description.**—The population of the province of Sergipe is estimated at 250,000. Aracajú, its capital and sea-port, has a population estimated at 9,500.

Sugar production.—The principal and almost the only industry of the province is sugar, of which some 20,000 tons were exported during the fiscal year 1885-'86,

mostly to other provinces of the Empire.

Navigation.—The direct navigation to foreign ports has been very limited. During the year 1885-'86 only 26 vessels, measuring 7,386 tons, sailed from the port of Aracajú to foreign ports, whilst 277 national steamers and sailing vessels, measuring 82,704 tons, sailed to other ports of the Empire.

Imports and exports.—The imports from foreign ports during the fiscal year 1885-'86 amounted to \$63,752, while the exports for the same period amounted to

**8**745,404.

The imports from other provinces during the period above mentioned amounted

to \$2,440,850, and the exports to \$431,000.

Slavery.—The province of Sergipe is fast emancipating the slaves. The people are industrious, and the climate is the same as that of Bahia.

Railways.—There is a concession given by the central government, with a subsidy of 6 per cent., for the construction of a railroad, which, starting from the capital (Aracajú), terminates at the rich district of Simão Dias, 113 miles.

#### PROVINCE OF PERNAMBUCO.

Description.—The province of Pernambuco contains a population estimated at 1,100,000. Its capital and principal sea-port is situated in latitude 8° 3' 27" south, and longitude 37° 10′ 20″ west of Paris, and contains a population estimated at 165,000 inhabitants.

Sugar export.—Sugar is the leading export of this province, the exports during the fiscal year 1885-'86 amounting to 93,545 tons, 71,037 tons less than in the year 1880-'81, when the exports reached 164.582 tons.

Sugar production.—The soil of the province of Pernambuco is immensely rich and is especially adapted to the culture of sugar-cane. Its sugar-producing capacity would be almost limitless if capital and remunerative price concurred in the development of this industry.

In this province there existed at one time 3,000 sugar factories of the primitive

character, but producing a sugar rich and of strong grain.

Several modern sugar factories, subsidized by the Government, have been established, but the different sugar produced by the processes employed in these factories is almost all consumed at home.

At present the low prices paid to planters for the raw material has greatly discouraged them, and in consequence the culture has been much neglected, and in many instances they have allowed the cane to rot in the fields rather than carry it to the factories to be made into sugar, stating that it would not pay expenses.

Government aid.—The Government is doing everything to assist the sugar industry, having taken as a preliminary step, to decree the exemption of export duties and causing the Government roads and private companies to reduce to a minimum the freight and all expenses on sugar.

Now in order to save this most important branch of agricultural industry and secure the future prosperity of the northern provinces engaged in the production of

sugar, other and more important measures must be resorted to.

Railways.—Pernambuco is endowed with three lines of railways, viz:

Recife and San Francisco Railroad (gauge 5 feet 8 inches), with 77 miles in the main line and 90 miles extension to Garanhuns, with 8 feet 84 inches gauge, all of which is soon to be opened to traffic.

Recife a Caruaru (gauge 3 feet 3) inches), with a total length of 85 miles.

Recife and Limoeiro (Great Western Railway), with 88 miles.

Trade at the port of Pernambuco.—The port of Pernambuco now admits ships of 20 feet draught, and in a short time, when the elaborate project presented to the minister of agriculture will be carried into execution, Pernambuco will have a good

and sure anchorage for vessels of any size and tonnage.

During the fiscal year 1885-'86 the number of foreign steamers and sailing vessels which entered the port was 573, measuring 462,535 tons, whilst 1,109 Brazilian steamers, and sailing vessels and a number of small craft (barcaças) measuring 226,668 tons, and 258 foreign vessels, of every description, measuring 126,090 tons, brought merchandise from the other provinces of the Empire or came to load sugar.

The total imports of foreign goods through the port of Pernambuco for the fiscal year 1885-'86 amounted to \$10,347,130 (exchange 50 cents per milreis), while the

export amounted to \$7,574,828.

The total imports from other provinces during the same period (1885-'86) amounted

to \$2,313,250, and the exports to \$3,898,300.

Trade with the United States.—The imports from the United States, for want of official data, cannot be given in this sketch. Those imports are made up of flour, lard, kerosene, naval stores, pine, domestics, machinery, locomotives, manufactured articles, etc.

The trade with the United States is daily assuming greater importance, and with a more constant stram communication and a free exchange of products, especially with the United States, our natural friend and principal consumer, a great expansion.

sion would result in the reciprocal commercial interest of both countries.

#### PROVINCE OF ALAGOAS.

Description.—Situated south of Pernambuco, the province of Alagoas contains a population estimated at 475,000. Its capital, Maceio, is in latitude 9° 89′ 30′ south, and longitude 38° 5′ west from Paris; contains a population estimated at 18,000.

Sugar production.—The principal industry of the province is sugar of excellent quality, owing to its strong grain. The soil is exceedingly rich, and the sugar-cane once planted produces several crops without replanting. Almost every inch of the soil of this province is adapted to the culture of sugar-cane, and it is not an exaggeration to say that with compensating price and other privileges the Province of Alagoas could produce hundreds of thousands of tons of sugar per year, even with its limited population.

Port of Maceio.—The port of Maceio is of sufficient depth for vessels of any size and tonnage. The number of foreign vessels sailed from the port of Maceio during the fiscal year of 1885-'86 was 60, measuring 45,466 tons, whilst 391 Brazilian steamers and sailing vessels, measuring 223,633 tons, and 4 foreign steamers, measuring

1,751 tons, sailed during the same period to other ports of the Empire.

Trade of Alagoas.—The total exports from Alagoas to foreign ports during the period of 1885-'86 amounted to \$1,187,881, and the imports to \$944,211.

The exports to other provinces of the Empire during same period amounted to \$452,350, and the imports therefrom to \$1,237,400.

This province subsidizes with \$12,000 yearly the Royal Mail steamer which makes

one trip every month to and from Europe.

During the first six months of the present year (1887) there were exported through the port of Maceio to Europe and River Plate nearly 24,000 tons of raw sugar.

Railways.—The province of Alagoas possesses two lines of railroad, viz:

The Paulo Affonso (gauge 3 feet 31 inches), with 721 miles, from the port of Pir-

anhao (south of Maceio) to Jalota, in the province of Pernambuco.

The Central Alagoas Railway (gauge 3 feet 31 inches) starting from the port of Jaraguá, near Maceio, to the Villa da Imperatriz, 541 miles westward of the province.

#### PROVINCE OF PARAHYBA.

Population, etc.—Population estimated at 489,000. Its sea-port, Parahyba, is situated in latitude 6° 57′ 80″ south, and longitude 37° 10′ west of Paris; contains a population estimated at 16,000.

Sugar production.—Sugar is the principal industry of this province, the ex-

ports during 1885-'86 amounting to 15,000 tons of sugar.

The raw sugar, produced by the primitive process, is rich in grain and is exported

to foreign countries through the port of Pernambuco.

No statistics have been made since the fiscal year 1884-'85 as regards the movement of the port [Parahyba?], which was, in that year, 34 foreign vessels, measuring 13,455 tons, and 190 national vessels, measuring 16,446 tons, sailing to other ports

of the Empire.

Low price of sugar in the foreign markets has considerably diminished the culture of sugar-cane. The port of Parahyba lies a considerable distance from the sea, and the great expenses incurred by large vessels in reaching it have caused the total absence of these vessels. Until the port of Cabedello is improved and the railroad facilitates cheap, transportation of goods to the principal center of commerce, Parahyba will be kept in arrears of other provinces.

Notwithstanding these impediments, there was exported by small crafts from the port of Parahyba to Pernambuco, there to be shipped to foreign and national ports,

the amount of \$996,487.

The province has a line of railroad, which starts from the port of Cabedello, at the entrance of the Parahyba River, and terminates at Mulungu, in the interior of the province, with 431 miles, and from that village two branches, with 281 miles, run east and west.

#### PROVINCE OF RIO GRANDE DO NORTE.

Population, etc.—Population estimated at 320,000. Natal, the capital of the province, is situated in latitude 5° 46′ 40″ south, and longitude 37° 32′ 20″ west of Paris,

and has a population of 16,000 inhabitants.

Sigar exports.—Sugar is largely manufactured in this province. No reliable statistics can be obtained as to the exports from the port of Natal for 1885–'86. The commercial association of Natal puts down the exports during 1885–'86 at 12,500 tons.

Navigation. — During the fiscal year 1885-'86, 31 foreign vessels, measuring 10,114 tons, sailed from the port of Natal for foreign ports, whilst 211 national steamers and sailing vessels, measuring 24,338 tons, and 4 foreign vessels, measuring

1,703 tons, sailed to other ports of the Empire.

Imports and exports.—The imports from foreign countries into Rio Grande do Norte for the fiscal year 1885—'86 amounted to \$88,506, and the exports to \$810,552, whilst the inter-provincial commerce for the same year was: Exports, \$107,750; imports, \$1,145,000.

Railways.—Natal and Nova Cruz (gauge 3 feet 31 inches), running from the capital, with 751 miles in traffic and 261 in construction, starting from Ceará Merim,

a rich sugar district, where a number of factories exist.

Soil, etc.—The soil of Rio Grande do Norte is rich, and the culture of sugar-cane and the manufacture of sugar can obtain a great development.

#### PROVINCE OF CEARÁ.

Population.—The population of the province of Ceará is estimated at 800,000. The capital, Fortaleza, is situated in latitude 2° 30′ south, and longitude 46° 37′ west of Paris, and contains a population estimated at 25,000.

Sugar production.—Sugar is an important industry of this province, but its culture has considerably declined of late, owing to the depression of the sugar market

generally.

The people are exceedingly industrious, and a great quantity of sugar can be produced in the province provided the price would compensate. As it is, Ceará

exports an immense quantity of sugar to Pará, where the growing of the cane is completely neglected for the more remunerative one of india-rubber.

The emancipation of the slaves first took place in this province.

Imports and exports.—The exports of Ceará to foreign ports during the fiscal year 1885—'86 amounted to \$1,693,807, and the imports to \$1,191,211. The exports to other provinces of the Empire for the same period amounted to \$761,500, and the imports to \$1,520,250. During the same fiscal year 60 vessels, measuring 45,466 tons, left the port of Fortaleza for foreign ports, whilst 391 national vessels, measuring 223,633 tons, and 4 foreign vessels, measuring 1,751 tons, sailed for other ports of the Empire.

Railways.—The Province of Ceará has two lines of railroads, viz:

Sobral Railroad (gauge 8 feet 81 inches), from Camoeino, a sea-port, to the city of Sobral, 80 miles in actual traffic, and an extension from Sobral to Ipu, 341

miles, in construction.

Baturité Railroad (gauge 3 feet 31 inches). This line, with its three branches, will have 65 miles, and with a contemplated prolongation to the most fertile part of the province, Ceará will be free from these periodical droughts which devastate the land and afflict its inhabitants, as water can be easily carried from the numerous rivers of that locality.

#### PROVINCE OF MARANHÃO.

Population, etc.—The population of Maranhão is estimated at 550,000. Its capital (St. Luiz do Maranhão) is situated in latitude 2° 30′ south, and longitude 46 37′ west of Paris.

Sugar production.—Sugar was at one time the leading industry of Maranhão, but the precarious condition of this article and the low prices all over the world caused the people to neglect its culture and apply themselves to the raising of cotton and rice. A considerable quantity of sugar is, however, shipped to Para, where no sugar is manufactured, owing to the more lucrative business in india-rubber, which occupies almost exclusively the attention of the people.

Soil.—The soil of Maranhão is well adapted to the raising of the cane, and the province could produce a considerable amount of sugar should remunerative prices

assist.

Imports and exports.—The imports from foreign ports into Maranhão during the fiscal year 1885-'86 amounted to \$2,499,700, and the exports to \$2,088,177.

The inter-provincial commerce for 1885—'86 is represented to be: Imports, \$613,-

850; exports, \$805,000.

There are no reliable statistics as to the movement of the port of St. Luiz do Maranhão, but a considerable number of vessels sail therefrom to Portugal and England, and a regular line of American steamers, subsidized by the Brazilian Government, call at this port, both on their outward and return voyages from and to the United States.

F. SIMOENS DOS SANTOS.

# BRAZIL.

REPORT OF ACTING CONSUL-GENERAL MCALL, OF RIO DE JANEIRO.

# I.—PROVINCE OF RIO DE JANEIRO.

Production.—It has been impossible to find actual statistics of production, and I doubt if such statistics have ever been published. In lieu thereof, I present the following statement of receipts of sugar at Rio de Janeiro for the periods and from the sources named:

### [Each bag contains 182 pounds.]

	1885.	1886.
From Campos  By the Dom Pedro II Railroad  By the Cantagallo Railroad	Baqs. 387,095 4,074	Bags. 394, 276 28, 582 9, 359
Total	391, 169	857, 167

The sugars received from the Campos district and that coming by the Cantagallo Railway were produced entirely in the province of Rio de Janeiro. Of that received by the Dom Pedro II road, it is safe to estimate that one-half was produced in the province of Minas Geraes, one-sixth in that of São Paulo, and one-third in that of Rio. By this calculation, and making an allowance of 200,000 (26,400,000 pounds) bags for annual consumption at place of production (which is at the rate of one-half pound per day per capita), we find that the production of sugar in this consular district for the year 1885 was 588,453 bags; for 1886 it was 541,479 bags. It is believed that this is a close approximation to the actual production.

Charges.—With respect to the item of "local charges" I beg to say that as yet I have not succeeded in obtaining information, and in order to save delay I forward this report now. These charges are different for almost every municipal district, so that it will take considerable time to secure the required information on this point.

Duties.—There is an export duty imposed by the General Government, amounting to 5 per cent. ad valorem. In addition, all sugar produced in the province of Rio de Janeiro pays, when exported, 3 per cent. ad valorem provincial duty. In the neighboring provinces of Minas, São Paulo, and Espirito Santo an equal duty is imposed. It should be borne in mind that this provincial duty is collected not only on sugar exported from the producing province to a foreign country, but also on sugar transported from the producing province to another province.

The import duty on foreign sugar amounts, under the present tariff, to 240 reis per kilogram—equivalent, with exchange at par, to nearly 6 cents per pound. This duty is imposed only by the General Government, the provincial governments being prohibited by funda-

mental law from Tevying duties on imports.

Trade.—The exports from Rio de Janeiro were as follows in the fiscal years 1884-'85 and 1885-'86:

Whither exported.	Description.	1884185.	1885-186.
Argentine Republic	White	Bags.* 3,498 718	Bags.* 15
Great Britain	White	• • • • • • • • • • • • • • • • • • • •	1,25
Portugal	Brown.	5, 288 3, 851	70 8,57 1,68
Uruguay	Refined	205 2,075	8,44 1,98
United States	White		96
All other countries ,	Brown	18, 009 4	18,73 10
Total		29,046	33, 12

182 pounds each.

The official value of the shipments was, in the fiscal year 1884-'85,

277:772\$238; in the year 1885-'86, 328:691\$110.

In the publications issued by the custom-house of Rio de Janeiro the imports of sugar, glucose, and sugar-candy are given together. In the fiscal year 1884—'85 the quantity of these articles imported at Rio de Janeiro was 36,205 kilos, valued at 13:783\$234; in 1885—'86 the quantity was 39,131 kilos, value 14:538\$935.

The proportion of sugar among these imports was not more than one-third—or, in round numbers, 12,000 kilos or 200 bags. By far the larger part of this sugar comes from Germany.

# II.—BRAZIL.

Production.—The principal sugar-exporting provinces are the following and in the order given: Pernambuco, Bahia, Alagoas, Sergipe, Maranhão, and Rio de Janeiro. A recent publication estimates the average annual production of the whole Empire at 400,000 tons, of which three-rourths are exported and one-fourth consumed at home. The same publication estimates the average yearly exportation of all national products at 700,000 tons; thus making the exportation of sugar some 43 per cent. of the total exportation, regard being had to weight. As to value, sugar exportation amounted to less than one-sixth.

The refined sugar most generally used in Brazil is the white powdered variety, prepared in the Empire. There is little demand for

loaf-sugar.

Cane.—Analyses of cane made last month at the central sugar mill of Barcellos, in the Campos district of this province, show a minimum sugar percentage of 14.67 and a maximum of 19.26. Campos cane has been known to contain as much as 22 per cent. of sugar. The average extraction of sugar from this cane is 6 per cent. of the weight of the cane.

Trade.—The following is a statement of the exportation from all Brazil from 1882-'83 to 1884-'85. It is taken from the report of the ministers of agriculture, presented to the general assembly in 1886:

Fiscal years.	Quantities.	Values.
1882-'83 1883-'84 1884-'85	Bags. 2,715,161 5,252,857 4,822,779	21 525, 8279000 87, 629, 6105000 21, 055, 9603000

Comparisons of these figures with the shipments from the port of Rio de Janeiro will show that the latter exports less than one-hun-

dredth part of the total exportation.

Proposed sugar legislation.—The effort initiated some months ago for ameliorating the condition of the Brazilian sugar trade has been conducted with earnestness, and apparently with harmony of aim and action. The central organization engaged in this effort is the Centro da Industria e Commercio de Assucar, inaugurated in this city last February. It has received the co-operation of the long-established sugar guilds of Pernambuco and Bahia, the great sugar markets of the country. The programme mapped out by this body is comprehensive and intelligent and well calculated to revive the sugar interest of Brazil, at one time pre-eminent in the markets of the world but latterly almost moribund, owing chiefly to the great development in the production of beet sugar. The idea of the propaganda is, that relieved of its heavy burdens of home taxation, manufactured by improved processes, and granted a foothold in consuming countries, the cane sugar of Brazil can contend successfully with any other or with the product of the beet, and can reach proportions of culture and trade far greater than any yet attained.

Some of the features of this programme are: The abolition or considerable reduction of export duties, general and provincial; reduction in freight charges on railroads, both on the product and the raw material; the offering of premiums for production and exportation; holding expositions of cane products in Rio and in foreign markets; special favors for mills and factories established without Government aid and in unprosperous conditions; the establishment of a laboratory for studying improved methods of culture and manufacture; the creation of schools destined to train personnel for this especial branch of industry. Another feature is, as the Department has already been informed, the obtaining of treaties with nations imposing heavy duties on Brazilian sugar, and especially the negotiations of a treaty of reciprocity with the United States, which country, it is declared, "can be made the leading market for this product."

Judging from newspaper utterances and the views of public men, the scheme of a treaty with the United States has a strong backing. Some remarks made recently before the lower house of the general assembly, by a member of that body, will serve as an indication of the sentiment on this point. Speaking to a proposition affecting the

sugar industry, the deputy said:

Europe no longer imports Brazilian sugar, but, on the contrary, has established duties for the protection of the beet product. The only market left to us is the United States, and there the sugar of Cuba and Porto Rico enjoys all favors, and freight being cheaper from Cuba to the United States than from Brazil to the United States, the result is that the importation there from Cuba and Porto Rico has increased, while that of our sugar has decreased. There is, therefore, urgent need of opening a new market, and increasing our sugar exportation by a convention with the United States, which will secure to our product the favors granted to that of Cuba.

These views, which emanated from one of the deputies for the province of Pernambuco, are believed to be shared by all the delegations from the sugar-producing districts of the north and their constituents, as well as largely by the people of this part of the Empire who are interested in the production and exportation of sugar.

One of the aims of those who would revive the sugar trade stands a strong chance of immediate realization. I refer to the abolition of the export duty imposed by the General Government. The estimate of the general receipts of the Government for the coming fiscal year was approved in the House of Deputies to-day with an amendment relieving sugar from this duty. The matter will now come up in the Senate, where little opposition is expected. If the amendment is successful in that body, the change provided for will go into effect on January 1, 1888, the fiscal year in Brazil being made, by recent enactment, to correspond with the civil year, the new arrangement to begin in 1888. It is to be noted, further, that the president of the province of Rio de, Janeiro in his message to the legislative assembly of the province, which met last Monday, recommended the abolition of the provincial export duty on sugar. It is generally thought that the assembly will legislate accordingly, and that similar action will be taken in other provinces,

This recommendation of the president of Rio indicates that the interest in the sugar revival is not confined to the provinces of the north. It is true, as stated above, that the port of Rio de Janeiro contributes only a small share to the total sugar exportation from Brazil, but it is also true that in a considerable section of the province the sugar industry is the principal one and represents large amounts of capital. It is to be borne in mind, further, that coffee

cultivation in the province of Rio is, in the opinion of many competent observers, showing signs of decided decay, arising from soil exhaustion and the great age of many of the trees; to which is to be added the possibility of loss arising from a disease which has attacked the trees in some sections, and which it is feared will spread widely. An idea of the destructiveness of this disease may be gathered from the fact that in only three municipal districts of the province the estimated annual loss from this source is about two million dollars, many planters harvesting less than one-tenth of the former product of their fields. With coffee culture confronted by these menacing evils, the agricultural community would 'gladly hail a more certain and lucrative occupation, so that under favorable conditions of trade the sugar output in the provinces of Rio de Janeiro would take on a vast increase. In other southern provinces also there are many districts

splendidly adapted to sugar growing.

Another object of the sugar propagandists is to secure the repeal of the import tax on machinery destined for the construction of sugar-mills. Under the former Brazilian tariff such machinery was exempt from duty, but by the revised tariff, which went into effect on July 1 of the present year, such articles, though nominally free, are subjected to a charge called expediente, amounting to 5 per cent. ad valorem. Efforts have been made lately in the general assembly for the removal of this burden, but these have only partially succeeded. A compromise has been reached, by which the Government is empowered to collect or remit this charge, as it may see fit in each individual case, all kinds of machinery being embraced in this provision. The measure embodying this compromise passed the lower house to-day and now goes to the Senate. The charge, by whatever name it may be called, is really a tariff duty, and if it is collected, the inevitable result will be to increase the cost of machinery to the Brazilian sugar manufacturer, who just at this time is a veritable sick man, and needs all the bolstering and nursing he can get.

> CHAS. R. McCall, Acting Consul-General.

United States Consulate-General, Rio de Janeiro, Brazil, September 14, 1887.

#### BAHIA.

# REPORT OF CONSUL PATTON.

Production.—I can find no statistics relative to the production of sugar in this district. There being no tax on plantations, statistics of production do not seem to have interested any one, and the leading merchants claim that the production is very little above the amount shipped, as sugar is not at all extensively used here.

Charges.—Local charges on plantations, none; the sole source of

revenue being export and import duties.

Duties.—Export duty, about 1½ cents per pound for the ordinary brown sugar. There is no sugar imported into this province. I suppose it would follow the general course of importations, and pay a very high ad valorem duty.

Exports—No report having been issued from the custom-house for the fiscal year ending June 30, 1887, I take the following from the report of the "Associação Commercial" for the calendar year of 1886:

	Pounds.
To the United States	78, 216, 565
To Canada	
To Great Britain	2, 667, 194
To France	
To Portugal	

W. O. PATTON, Consul.

United States Consulate, Bahia, August 31, 1887.

#### PARA.

#### REPORT OF CONSUL CLAYTON.

There are a few sugar plantaions around Para, but the cane grown thereon is used almost entirely in the manufacture of rum.

ROBERT CLAYTON,

Consul.

United States Consulate, Para, October 14, 1887.

#### PERNAMBUCO.

### REPORT OF CONSUL ATHERTON.

Production.—Pernambuco, 125,133 tons; Maceio, 29,368 tons; Parahyba, 5,092 tons; total, 159,593 tons.

Taxes.—There are no local charges for taxes.

Duty.—The imperial export duty is 5 per cent. A bill has passed one house taking the duty off. The provincial duty in Pernambuco and Maceio is 3 and 5 per cent. additional. In Parahyba the provincial duty is 5 per cent. The import duty on foreign sugars is from 5 to 6 cents.

Trade.—To the United States, 62,540 tons; to Great Britain, 23,201 tons; to Canada, 12,783 tons; to southern and Brazilian ports, 61,069 tons.

HENRY L. ATHERTON,

Consul.

United States Consulate, Pernambuco, September 3, 1887.

# RIO GRANDE DEL NORTE.

### REPORT OF CONSULAR AGENT NELSON, OF NATAL.

Production.—The sugar produced in this district is estimated at 21,600 tons.

Taxes.—A provincial tax of, say, 25\$000 to 35\$000 per plantation.

Duties.—The export duties, until this season, were 10 per cent., 5 per cent. being general and 5 per cent. provincial. Under the new law the general tax is abolished, but the provincial is still in force.

The import duty is 240 reis per kilogram, or about 5 cents per pound; in sacks, 2 per cent. discount; in boxes or barrels, 15 per cent. discount, with an additional 3 per cent. provincial duty.

Trade.—The sugar exports were, for the year ending June 20, 1887, to England, 16,429 tons; to Canada, 577 tons; the remainder being

forwarded to Pernambuco.

No direct importations are made either for the United States or Canada, only coal is imported from England by the railway company for its own use.

Lyle Nelson, Consular Agent.

United States Consular Agency, Natal, August 23, 1887.

# BRITISH GUIANA.

# FIRST REPORT OF CONSUL BUNKER, OF DEMERARA.

Production.—British Guiana in 1886 produced 124,283 hogsheads sugar, equal to 111,855½ tons, divided and priced as follows, exclusive of local consumption: 68,000½ hogsheads yellow vacuum-pan sugar, \$60.20 per hogshead; 40,000 hogsheads refining sugar, \$53.86 per hogshead; 6,283 hogsheads muscovado sugar, \$49.24 per hogshead; 10,000 hogsheads molasses sugar, \$43.92 per hogshead; giving a medium of \$56.30 per hogshead, or, as near as possible, \$62.55½ per ton.

Taxes and local charges.—Estates pay an acreage tax of \$2 per annum per acre for all land under sugar-cane cultivation, and 2 cents per annum per acre for all land not cultivated.

Each estate is obliged by law to keep its public roads in order; the material, burned clay, being provided by the Government free

of expense.

The Government provides qualified medical attendance free for all laborers on estates. About \$100 per annum is charged by the physician for attending on the manager, overseers, and their families.

Duties.—Estate supplies admitted duty free are: Machinery used in drainage, for manufacturing manure, for electric lights; locomotive engines; railway plant; boilers; boiler plates and tubes; pans; tanks, and other vessels used exclusively for manufacturing sugar; locks or sluices for sea defenses or water supply; iron cane punts; iron bridges; grating bars; tile and brick making machinery; animal charcoal; lime; manures; steam plows; steam diggers, and steam dredges.

There are no export duties.

Import duties on foreign sugars 4 cents per pound.

# Sugar trade, with countries of export.

·	Hogsheads.
United States	47, 52813
United Kingdom	. 74, 544 §
Rritigh West Indies	10814
British North America. Bermuda Danish West Indies.	. 1,75419
Bermuda	$119\frac{6}{24}$
Danish West Indies	. 16
Holland French Guiana	
French Guiana	. 8017

	Hogsbeads.
French West Indies	5
Central America	66 g
Dutch Guiana	813
Dutch West Indies	1117
French West Indies. Central America. Dutch Guiana. Dutch West Indies. Portugal	5334
Total	124, 28319
D Ф Визики	RT

D. T. BUNKER, Consul.

United States Consulate, Demerara, August 17, 1887.

### DEMERARA.

# SECOND REPORT OF CONSUL BUNKER.

A careful inquiry among planters and managers develops the fact that very many sugar estates have abandoned the making of fine crystals for the English market, and will, for the coming year, make only dark sugars for the American refiners, it being a fact well established that the United States pays the highest price for raw sugar of any country in the world, and the class of sugars purchased thereby can be manufactured much cheaper than crystals.

Demerara planters can make common sugars as cheaply as any other planters, but they cannot compete with American refiners.

Last year British Guiana exported 124,283 hogsheads of sugar, of which amount 47,523 hogsheads were shipped to the United States. According to present indications a much larger quantity will go thither this year. I estimate the amount at from 60,000 to 70,000 hogsheads, while a native sugar merchant says it will be nearer 80,000 hogsheads.

Very many American vessels arriving here are chartered for the round trip, which has operated to their disadvantage in numerous cases, as they could have made better charters here had they been free to do so. The result has been that British steamers plying between this port and England and large ships from Calcutta have been diverted from their regular routes to carry sugars to the United States. I am credibly informed that these steamers intend to pursue the same course the coming season.

I would suggest that it may be well for owners and agents of American vessels, in making charters for Demerara, to consider whether it would not be for their advantage to leave the matter of homeward cargoes to the judgment of masters of vessels.

Recent charters for New York and Philadelphia have been made

at from 13 to 15 cents per 100 pounds.

D. T. BUNKER, Consul.

United States Consulate, Demerara, September 2, 1887.

# DUTCH GUIANA.

# REPORT OF CONSUL BARNETT.

The production of sugar in this consular district is estimated as follows for the three last years:\*

1884: Muscovado, 8,333,577 pounds; vacuum pan, 7,847,595

pounds; total, 16,181,172 pounds.

1885: Muscovado, 4,801,167 pounds; vacuum pan, 7,174,849 pounds; total, 11,976,016 pounds.

1886: Muscovado, 5,025,636 pounds; vacuum pan, 10,370,115

pounds; total, 15,395,751 pounds.

Taxes.—There are no taxes imposed on plantations in general beyond a nominal acreage tax, to which a few are still subject in virtue

of a very old ordinance.

Those estates or plantations on which indentured East Indian imigrants are employed have to contribute, by way of a tax, for a regular medical attendance on these laborers, i. e., for each male adult \$2 and for each female adult \$1 per annum; and have necessarily to meet the expenses incidental to the employment of indentured labor as defined by ordinance.

Attorneys or agents of plantations have, in addition, to pay for an annual license, which is compulsory on every one in the pursuit of

any profession or calling.

Duties.—Pending the promulgation of a revised tariff of import and export duties, which, as is anticipated, will come into force on first January next, and which will abolish entirely the export duty on sugar and its concomitants, that duty on these commodities is, in the mean time, suspended.

The import duty on foreign sugar is at present, for refined, 5 cents Dutch currency (2 cents American) per kilogram; and for all others 4 cents, Dutch, per kilogram; but will, in terms of the new tariff, be at the rate of 10 cents (4 cents American) per kilogram on all goods indiscriminately.

Trade.—The extent of the sugar trade for the last three years is

shown in the following statements:

Quantities of sugar exported from Dutch Guiana during the years 1884, 1885, and 1886.

Whither exported.	Muscovado.	Vacuum pan.	Total.
1884.	Pounds.	Pounds.	Pounds.
Holland	732, 721		1,561,521
United Kingdom	2, 250, 428	7,840,655	9,591,078
North America	8, 163, 734		8, 991, 667
All other places	1, 146, 620		1, 146, 620
Total	7, 293, 496	8,997,388	16 290, 886
1885.			
Holland	1, 242, 956		2, 129, 809
United Kingdom	107, 169		6,887,758
North America	2, 338, 40		2 451,077
All other places	838, 467	181,859	470, 826
Total	4, 026, 990	7,911,980	11, 988, 970
1886.			
Holland	815, 769	928,084	1,743,846
United Kingdom	285, 186	5,778,792	6,058,978
North America	2, 435, 20	496,786	2,981,988
All other places	82, 634	705	48, 839
Total	3, 568, 784	7, 199, 867	10, 778, 151

<sup>\*</sup>The quantities throughout this report were reduced from kilograms to pounds in the Department.

Statement showing the imports of sugar into Dutch Guiana during the years 1884, 1885, and 1886.

	Whence imported.				
Years.	Holland.	United Kingdom.	North America.	All other places.	Total.
1884	Pounds. 818,771 268,348 811,846	Pounds. 786 780 77	Pounds. 88, 096 79, 600 45, 070	Pounds. 115, 146 22, 188 6, 502	Pounds. 467,709 870,866 8 2,995

The foregoing imports were composed of refined sugars, with the exception of 75,000 pounds, 20,000 pounds, and 5,000 pounds of yellow sugars for the years 1884, 1885, and 1886, respectively, from "all other places."

HENRY BARNETT,

Consul.

United States Consulate, Paramaribo, August 23, 1887.

#### CHILI.

# COQUIMBO.

REPORT OF ACTING CONSUL SCARISBRICK.

Production.—There is no sugar produced in this district.

Taxes.—There are no local charges on plantations.

Duties.—There are no export duties levied on sugars. The import duties are as follows: American and French sugars, \$5.85 per quintal (101 pounds); Peruvian raw or granulated, \$3.85 per quintal.

Sugar imports.—American, 60,600 pounds; Peruvian, 100,100

pounds; French (beet), 4,500,000 pounds.

F. Scarisbrick, Consul.

United States Consulate.

Coquimbo, August 20, 1887.

# VALPARAISO.

#### REPORT OF CONSUL ROMEYN.

Production.—There are no sugar plantations in this consular district.

Duties.—There are no export duties. The import duty is 35 per

cent. ad valorem.

Trade.—The latest available official statistics giving the imports of sugar are for the year 1885. According to these the imports were as follows:\*

<sup>\*</sup>Reduced in the Department from kilograms and Chilian currency to American weights and money.

#### WHITE SUGARS.

Whence imported.	Quantity.	Value.
Peru	Pounds. 1,081,778 54,948	\$75, 878 4, 882
REFINED SUGARS.		
Great Britain Germany France United States	88, 887 26, 460 41, 018 9, 702	8, 648 <b>2,</b> 469 8, 648 911

JAMES W. ROMEYN, Consul.

United States Consulate, Valparaiso, August 26, 1887.

# ECUADOR.

#### REPORT OF CONSUL-GENERAL M'GARR.

Production.—The production of sugar in Ecuador is about 11,000,000 pounds annually, of which about 6,000,000 pounds are produced in this province (Guayas), and the residue in the Andean region. There are here five sugar plantations with steam-power machinery, the largest of which produces 3,000,000 pounds yearly.

The production of sugar has greatly increased in the province within the past three years—more than doubled, and the quality, I am

told, is equal to the best imported article.

Local charges.—The only local charge on plantations is a tax of one mill on the dollar of the land value, which value is ascertained or fixed for the purpose of the tax by the quantity of sugar produced on it. There is no tax on the machinery or buildings.

Duties.—There is no export duty on sugar. The import duty on foreign sugars is 5 cents per kilogram and 20 per cent. additional for local purposes, making the total duty 6 cents per kilogram, or a little less than 3 cents a pound. This duty is imposed on all imported sugar, without reference to its quality or value.

Sugar imports.—About 200,000 pounds were imported last year from the United States, Germany, and France, of which the United States furnished about one-half and Germany probably one-third.

The whole was crushed loaf-sugar.

There has been a great decline in the quantity imported during the last two years, owing to the large increase in the home production, and it is believed that the importation of sugar has well-nigh ceased. A little will continue to be imported to supply the small demand for loaf and crushed sugars, which are not made in this country.

Cost of production.—The high duty and cheap labor have greatly stimulated the production, the cost of which, I am told, on the large

plantations is only about 4 cents a pound, while the sugar is sold in this market at 11 cents a pound.

I inclose a specimen of the sugar grown and manufactured in the

province.

OWEN McGARR, Consul-General.

Consulate-General of the United States, Guyaquil, August 16, 1887.

# PERU.

# REPORT OF CONSUL BRENT.

In reply to the circular from the Department dated the 14th July last, I beg to submit the following answers:

The production of sugar in this consular district of Callao is 15.400

tons yearly.

Local charges on plantations, none.

Export duties, none.

Import duties on foreign sugars per kilogram, ad valorem 20 cents; on this, 65 per cent.

Extent of sugar trade with foreign countries, 11,000 tons.

The Department of Lima and province of Callao are not the principal sugar-producing districts of Peru. These are farther to the north, near Chimbote, Salaverry, and Trujillo. The sugar output from Peru in 1876—'77 was over 75,000 tons per year. Now, owing to the competition of the article manufactured from beet root, the difficulty experienced in obtaining labor, and the heavy losses attendant on the war, which crippled many of the largest planters, the export will not reach 40,000 tons per year.

H. M. Brent, Consul.

United States Consulate, Callao, August 14, 1887.

#### IQUIQUE.

# REPORT OF CONSUL CLAYTON.

Production.—Sugar is not produced in this district nor in any portion of Chili.

Duty.—The following is the official classification and valuation of imported sugars, on all of which the duty is 35 per cent.

# [Spanish quintal = 101.48 pounds.]

Description.	Per cent.	Per quintal.
1. Refined, entire, broken or ground, damp or dry 2. White, unrefined, ground or granulated, damp or dry 3. Granulated, of the first product, damp or dry 4. Granulated, of the second product, damp or dry 5. Nos. 24, 19, 18, and 17, Dutch scale, damp or dry 6. Nos. 16, 15, 14, and 18, Dutch scale, damp or dry 7. Nos. 12, 11, 10, and 9, Dutch scale, damp or dry 8. Nos. 8 and following, Dutch scale, damp or dry	60, 484 60, 669 45, 652 70, 434 58, 693 45, 652	18.50 14.00

Trade.—The following statement shows the imports of sugar into Chili during the years 1883-'84 and 1885, and the imports into Iquique alone for the year 1886:

		18	88.	18	84.	
Class.	Whence imported.	Into consular district of Iquique.	Into other Chilian ports.	Into consular district of Iquique.	Into other Chilian ports.	
White Brown Refined Do Do Do Do Crystalized	Perudo France Great Britain Germany United States Peru Great Britain	Kilos. 763, 969 48, 136 56, 878 289, 573 878, 435 22, 259 104 307	Kilos. 1,675,086 8,862,701 4,697,464 2,505,476 8,971,091 1,054,958 42,705 2,010	Kilos. 768, 114 85, 526 50, 995 272, 879 442, 525 18, 178 68, 004	Kilos. 2,610.773 11,744,179 8,689,005 2,217,078 6,854,852 694,241 7,950 1,045	
Total		1,618,570	22, 811, 496	1,646,898	27, 249, 210	
		18	<b>85.</b>	18	<b>86.</b>	
Class.	Whence imported.	Into consular district of Iquique.	other Chili-	Into consular district of Iquique.		
White	Perudo	Kilos. 298, 241 20, 885 88, 079 84, 309 184, 868 5, 518	Kilos. 2, 122, 097 12, 036, 604 8, 276, 645 1, 318, 440 2, 716, 186 219, 171	Kilos. 490, 574 88, 994 26, 671 215, 308 15, 362	Kilos.	
Do	United States Peru Great Britain	281,088	614		• • • • • • • • • • • •	

J. W. MERRIAM, Consul.

United States Consulate, Iquique, August 18, 1887.

# REPUBLIC OF COLOMBIA.

# BARRANQUILLA.

REPORT OF CONSUL VIFQUAIN.

Production.—A fair quantity of sugar, called panela, is manufactured in this district for home consumption; it is used by all classes, and is said to be very wholesome. The chief place of manufacture in my consular district is in the San Marta province of the department of Magdalena. None is exported. Some ten years ago an attempt at exportation was made, but it was not a success; it would not preserve its qualities in the ocean transfer.

The panela is made of sugar-cane; when ready for sale it is shaped like tablets of chocolate, of about the same size and the same color.

The reason why it is so dark is owing to the low altitude of the land where the cane is raised. In some parts of Colombia, at a higher altitude, the panela is almost as white as loaf-sugar, but not near as solid.

This panela answers all purposes. It is healthy and cheap. It is said to be a panacea for coughs and diarrhea. It makes a very cooling drink when mixed with water, and many families never use any other drink. They use it in the place of pure water, just as in Paris in former days, when people generally put a small piece of loaf-sugar in their glass of water.

This district does not manufacture panela enough for its own consumption. It receives considerable quantities from other portions of

Colombia.

This Republic contains unequaled sugar regions. Some of the cane in the Cauca valley has produced during the last eighty years—an authentic fact. It grows to gigantic proportions, is cut down every year, and from the root grows anew, richer than ever.

Charges.—There are no local charges on plantations.

Duties.—Export duties, none. Import duties on sugars, 5 cents

per kilogram.

Trade.—The records of this office show that landing certificates were given during the fiscal year 1886-'87 for the entry of 750 half barrels of cut loaf, all from New York. For the fiscal year 1885-'86 the same records show entry of 350 half barrels cut loaf; and for the year previous, 370 half barrels. Hence, during the last fiscal year, 1886-'87, the increase over other years is more than 100 per cent. The sugar trade is almost exclusively with New York. Yet, owing to the debentures, it is made evident that the foreign product, the "raw material" for sugar, before it is refined, must have an influence over our domestic product. I am told Cuba furnishes the "raw material," from which the United States refiners manufacture the loaf-sugar shipped to this port.

This is about the sum total of the sugar imported at this place.
VICTOR VIFQUAIN,

Consul.

United States Consulate, Barranquilla, August 7, 1887.

#### VENEZUELA.

# REPORT OF CONSUL BIRD, OF LA GUAYRA.

Production.—This industry, owing to the heavy decline in prices and the competition of the beet-root sugar, has gradually decayed, so much so that the country now raises barely enough for home consumption. The labor and expense of raising and preparing it for market when compared with that incurred on the coffee and cocoa crops, is so much in favor of the latter that this consideration has also operated against it, and planters find more profit in coffee at 15 cents per pound and cocoa at 28 cents per pound. The production, therefore, as may be inferred, is nominal, and from a commercial point of view is not to be considered.

Taxes.—There are no local charges, such as taxes, etc., on the plantations, all the revenues of the Government being chiefly derived

from duties on imports. Nor is there any internal revenue or ex-

port duty levied on the sugar product.

Imports prohibited.—The importation of foreign sugars is prohibited; hence a low grade of sugar that is sold at retail for 5 cents per pound in the United States is worth from 8 to 10 cents per pound in Venezuela.

Trade.—As above intimated, no sugar is exported from the country, and with importations prohibited, it will readily appear that the extent of the foreign sugar trade of Venezuela amounts to nothing.

WINFIELD S. BIRD, Consul.

United States Consulate, La Guayra, October 3, 1887.

#### CIUDAD BOLIVAR.

Sugar is not produced in this district; that consumed here is brought from La Guayra, and manufactured at Carácas and Valencia. It is very inferior in quality. The importation of foreign sugars is prohibited.

GEO. F. UNDERHILL,

Consul.

United States Consulate, Ciudad Bolivar, August 20, 1887.

### MARACAIBO.

#### REPORT OF CONSUL PLUMACHER.

Production.—This consular district is composed of the States of Falcon, Zulia, and Los Andes. In Falcon the production of sugar is so entirely insignificant, cane growing not being an industry of any importance, that it may properly be excluded from any statistical report.

In Zulia, along the margin of the lake, there are various cane plantations, some of them of large extent, giving an average annual pro-

duction as follows:

In the State of Los Andes the production is somewhat less than in Zulia, averaging annually:

 Brown sugar
 98,000

 White sugar
 98,000

A total annual production for the district:

 Brown sugar
 7,752,000

 White sugar
 400,000

 Molasses
 gallons
 246,800

Nearly all the molasses and a great quantity of papelon are sent to the distilleries and sold to the public in the form of rum, which is generally of a very fair quality, with a grade of about 22° Cartier's scale.

Taxes.—There are neither national nor State taxes upon land in cultivation or upon products, but there are certain municipal dues, which vary slightly according to the locality. The average amount of these dues for this consular district may be estimated as 10 cents per carga of 176 pounds of sugar, and 7½ cents per carga of 16 gallons of molasses.

Duties.—By the terms of the constitution of Venezuela no duties can be imposed upon exports. Neverthless, no article of domestic production can be exported without the payment of certain dues to the Government, which take the form of permission to embark, stamps, stamped paper, etc. In the case of sugar and molasses these dues amount to 40 cents upon a value of \$200 in United States money.

The importation of sugar, and cane product generally, is prohib-

ited by law.

Trade.—Since 1884 no sugar has been exported to foreign countries from this consular district. I give a resume for four years (value in United States gold):

1881	<b>\$38</b>
1882	
1883	
1884	3, 112

Shipments to the United States and to Germany during the year 1884 turned out exceedingly unsatisfactory, resulting in every case in absolute loss. Only brown sugar, or papelon, was exported, and the mode of the elaboration of this product renders it apparently of but little use to refiners.

Practically there is no exportation of sugar to foreign countries. Large quantities, both of sugar and molasses, are sent to other sections of Venezuela, however.

Manufacture.—Generally speaking, the process of sugar making

in this district is crude and old fashioned.

In the State of Zulia there are six mills worked by steam, but the great majority derive their motive power from oxen, and in many cases the rollers are rudely made of wood, with or without iron facings.

There are two or three centrifugals scattered throughout the district, but the general method of making white sugar is by the old clay process, the result of which is naturally an inferior article.

The vacuum pans are unknown, the boiling being accomplished in batteries of from one to four open pans, according to the importance

of the plantation.

The liming is done directly in the first pan of the series, as special defecating apparatus has not as yet been introduced; neither has the elaborate filters and clarifiers now in use in nearly all sugar-producing countries; and, as a rule, the juice is run directly from the mill into the pans, with no intermediate operation other than straining

In making white sugar the juice is boiled to the usual graining. point, run into coolers, and then operated upon either by the centrif-

ugal or clay process.

Drying cylinders, however, are not used as, for convenience of transport, both the brown and white sugars are pressed into bricks or loaves; the latter form, however, being of rare occurrence in this district.

These bricks are packed in bundles of ninety-six each, two of which, weighing in all about 176 pounds, form a carga, or a load for one donkey, which is the standard for buying and selling in large quantities.

In the making of the brown sugar, or papelon, the boiling is continued until long after the graining point is reached, and the sirup run into molds. This forms a solid, homogeneous mass, with the crystallization destroyed by excessive boiling, which is probably the reason of its unfavorable reception in New York and Hamburg.

"Cultivation.—The planting and cultivating of cane in this district are not attended with any special peculiarities. Cutting may be done from fourteen to eighteen months from the seed, and from ten

to 12 months from the r. toons.

Some planters burn off the squares after cutting, but the majority seem to be in favor of simply hauling off the dead leaves and tops from the roots, and allowing the trash to rot between the rows. In close planting the latter method would not be practicable, but as here the distance between the rows is about 6 feet, it is said to cause no inconvenience.

Irrigation is not practiced, and the cane is subjected to the disadvantage of the extremes of heavy rains and protracted droughts. The roots, however, live for many years, producing yearly crops without apparent degeneration, although in Zulia the crude juice is of a low grade, rarely exceeding 7½° or 8°, while in the State of Los Andes, in the higher regions, a grade of 13° has been observed. In the latter section, however, slowness in maturing is a disadvantage, as it occasionally requires a period of three years from the seed to put the cane in condition for profitable cutting.

Lawor.—The sugar industry could be made a very important one with careful selection of land and facilities for irrigation. Improved machinery would then follow as a matter of course, and Venezuela would not be, as now, almost helplessly dependent for prosperity

upon her one staple—coffee.

It is true that for the success of extensive sugar growing in this country a more plentiful and reliable supply of labor would be necessary, and it has been frequently suggested that the contract system, as practiced in Peru and Cuba with Chinamen, and in Trinidad and Demerara with East Indian coolies, might be introduced profitably in this Republic. A strong opposition has always, heretofore, prevented these measures from being carried into effect, and the Government has never been willing to sanction a system which, as is alleged, savors too much of slavery to be permitted in a free republic.

The introduction of Chinamen, however, has no doubt been the cause of the immense development of the sugar industry in Peru, some estates before the war with Chili having from fifteen hundred to two thousand laborers each. No country has ever given such average returns in this branch of agriculture as Peru, owing not only to the elaborate system of labor, but also to the universal practice of irrigation, a fact which our Venezuelan planters would do well to appreciate.

dillera into the Pacific.

E. H. PLUMACHER, Consul.

United States Consulate, Maracaibo, September 2, 1887.

# WEST INDIES.

# BRITISH WEST INDIES.

# BARBADOES.

### REPORT OF CONSUL REED.

Area under cultivation.—Barbadoes, though the smallest of the British West Indies, is the largest producer of sugar. Every other industry but that of sugar has been given up. The principal cause of this was the necessity of providing means of support for the teeming population. The island is of coral formation, and, with the exception of a line of hills running from north to south, is generally flat. It has an area of 166 square miles, containing 106,470 acres, of which 93,032 acres are devoted to production of sugar, divided as follows, viz: 85 estates with steam mills, 27,875 acres; 9 estates with steam and vacuum pans, 4,084 acres; 372 estates with and without wind-mills, 61,073 acres; in all, 466 estates containing 93,032 acres, all of which are in cultivation.

Tenure and rent.—The tenure of land is freehold, and in renting an estate the rent is calculated at about 6 per cent. of the assessed

value.

Labor.—Labor commands but very low prices; the reasons for this being the cheapness of living and the large population, averaging 1,021 persons to the square mile, having no other resort than the cane field. The laborers are located on the estates, in frame dwellings, with small patches of land attached which they generally cultivate, those occupying half-acre plots paying 20 cents weekly, and quarter-acre plots 10 cents weekly.

The male and female laborer will spend for clothing about \$10 per year. The male can live for about 60 cents weekly, while the same

living costs the female 45 cents weekly.

The male laborer receives 20 cents a day, the female 15 cents, and children from 8 to 10 cents, with the addition during the crop season of a small quantity of molasses every Saturday. The principal articles of food used by them are sweet potatoes, yams, rice, salt fish all the year round, and fresh fish during the season.

Machinery and tools.—Tools in general use are the common plantation hoe and fork, ordinary English plows, both single and double mold-board, subsoil plows, and cane-bill for cutting cane. The ma-

chinery in use is of English manufacture.

Planting, etc.—The cane is planted about December and is fully ripe and ready for cutting in about fifteen months, being thoroughly weeded every week until the banks are covered. There is an extensive use made of chemical manures, which are tested on the spot and sold according to scale, the best qualities bringing \$60 a ton.

The "Bourbon" cane seems to be the best adapted for the island,

and is mostly used.

Sugar production.—There are three distinct kinds of sugar manufactured, viz: Vacuum pan, Muscovado oscillated, and Muscovado common process.

The amount of vacuum pan manufactured is about 4,000 tons yearly. The estimated cost of manufacturing Muscovado common process is

about \$5 per ton, and the percentage of molasses is from 60 to 75 gallons per ton of sugar; the other kinds cost about \$10 per ton. The output for the last eleven years has been as follows:

Years.	Quantity.	Yours.	Quantity.
1877	Hogsheads. 52, 879 48, 511 62, 146 59, 217 57, 029 59, 384	1868	Hogahda, 57, 851 67, 065 72, 461 50, 687 73, 000

Local charges, taxation, etc.—Barbadoes is divided into eleven parishes, each of which elects its own vestry who make the rate of taxation according to requirements of the parish; this, of course, varies from year to year. The rate for 1886 fixed for each parish was as follows, viz:

Parishes.	Rate per acre.	Parishes.	Rate per acre.
St. Lucy	\$1, 12 .96 .88 .84 .80 .44	St. George St. Thomas St. Peter St. Philip St. Andrew	. 70 . 68

Duties.—There are no export duties. The only import duty is on

refined foreign sugars, which is \$2.40 per 100 pounds.

Sugar exports.—The following table gives the summary for ten years. In determining the value the official estimate is used, which prior to 1884 was \$72 per hogshead; since that time it has dropped to \$48 per hogshead.

Statement showing the quantities and value of sugar exported for ten years.

		_		Whither	exi	ported.				ŀ	
Years.	Grea	t Britain.	Unite	d States	ı.	Americ	n North an prov-	Berm	uda, etc.		otal.
1877 1878 1879 1880 1881 1883 1885 1884 1885	Hhds, 31,898 49,7884 88,895; 38,948 29,798 83,928 27,976 80,240 80,957 17,568	Value, \$2,991,356 2,141,172 2,800,476 2,398,805 3,144,786 2,421,276 2,079,658 2,276,088 1,506,298 892,821	HAde. 14,877; 12,140; 10,464; 18,138; 13,188 9,342 25,863 29,548 82,728 27,063		,80 16 68 12 86 04 90 98 16 42	#hds. 9181 1,408, 7,566, 7,569, 8,911, 11,984, 729 8,908, 8,780 749	Va ue. \$65,771 101,968 544,789 545,014 041,629 862,884 52,524 641,079 179,052 85,970	Hhda 1464 924 924 926 936 299 822 825 491 838 887	Value, \$10,548 16,146 16,236 17,010 21,548 28,184 28,463 85,576 16,296 18,594		4, 114, 96 8, 901, 50 3, 757, 44
Total First 6 months	808, 467	21,087,646	178, 678‡	11,444,4	481	59, 463	8,669,979	2, 9984	198, 599	587, 801‡	36, 850, 70
of 1887	12,718	610, 294	51, 653	2, 679, 6	622	1,827	63, 696			65,699	8, 158, 50

Statement showing quantities and value of sugar exported for ten years—Cont'd.

RECAPITULATION.

Countries.	Quantity.	Value.
Great Britain United States British North American provinces Bermuda, etc	Hogsheads. 808, 467 178, 8781 52, 468 2, 9981	\$21,087,646 11,444,481 8,669,979 198,599
Exports for 10 years	587,8014	86, 850, 705

L. G. REED, Consul.

United States Consulate, Barbadoes, September 1, 1887.

# BERMUDA.

# Imports of sugar into Bermuda during the year 1886.

[Duty 5 per cent. ad valorem.]

Countries whence imported.	Quantity.	Value.
United Kingdom United States Barbadoes Demerara Jamaica Antigua	Pounds. 4,500 895,882 1,085,446 116,144 8,528 46,596	\$238, 46 14,080, 12 28,067, 21 8,406, 53 150, 86 1,890, 00
Total	1,652,096	42, 213. 90

No sugar is produced in nor exported from this colony.

CHAS. M. ALLEN,

Consul.

United States Consulate, Bermuda, August 9, 1887.

#### JAMAICA.

# REPORT OF CONSUL BEYLARD.

Exports and production.—The exports of sugar from Jamaica during each of the past five years were as follows:

	Pounds.
1882*	77, 899, 280
1883	68, 954, 256
1884	
1885	
1886	

There are no means of arriving at the local consumption, but it may be estimated at 30,800,000 pounds. The average production then, may, therefore, be placed at 91,821,620 pounds.

<sup>\*</sup>Quantities in this report reduced from cwts. to pounds, at the rate of 112 pounds to the cwt., in the Department.

Taxes.—All land is liable to the quit-rent of 2 cents an acre, and a tax of 6 cents per acre is imposed on lands under cane cultivation.

Duties.—The export duties are \$1.39 on each hogshead of nominal

weight of 1,904 pounds.

The import duties are 4 cents per pound on refined sugar, and

\$2.43 per 100 pounds on sugar unrefined.

Trade.—The exports of 1886 were distributed in the following proportion: United Kingdom, 17 per cent.; United States, 67 per cent.; Canada, 13 per cent.; other countries, 3 per cent.

Louis D. Beylard,

Consul.

United States Consulate, Kingston, Jamaica, August 10, 1887.

# ST. CHRISTOPHER.

#### REPORT OF COMMERCIAL AGENT DELISLE.

The average crop per annum amounts to 13,000 tons. There are no local charges or taxes on plantations.

There is an export duty of \$2 per hogshead, payable by shipper.

The import duty on foreign sugar is \$2 per 100 pounds.

Prior to 1883, two-thirds of the sugar crop of this island was shipped to England and the balance to the United States. Since the above-mentioned date, seven-eighths of the crop is shipped to the United States, and the balance to England.

EMILE S. DELISLE, Commercial Agent.

United States Commercial Agency, St. Christopher, September 13, 1887.

# TRINIDAD.

# REPORT OF CONSUL SAWYER.

Production.—There are about 70,000 acres of land in 89 principal estates of the island, 45,000 acres being covered with cane fields. The largest estate yielded last year 5,956 hogsheads, and the smallest only 43. The estates average 670 acres. The sugar crop of 1886 was 61,495 hogsheads. These properties are mostly owned in England, having attorneys to manage them here. Many of these estates are encumbered with mortgages, and, unless there is an advance in the price of sugars during the next year, they will have to be abandoned, as are many of the estates of Demerara, Barbadoes, and other islands. The canes planted are named Otaheite, Bourbon, Green-rose-ribbon, Red-giant-scarlet, White-transparent, and Congo. These canes are selected after experimenting with many kinds. Otaheite, from the name of the island in the Pacific whence it was brought, is the best cane for this island. Of a beautiful golden color, of large size and height, it is easily distinguished from the others. It never runs to leaves, nor fails of yielding copiously. I am informed by the planters that the Otaheite cane has ratooned on this island for twenty years, which proves that the soil must have been highly fertilized and the cane exactly adapted to the soil and climate where it was

planted.

The cultivation of sugar is an expensive undertaking. The land is purchased of the Government at £1 an acre, and a plantation yielding 1,000 hogsheads of sugar requires at least 1,200 acres, as half is used for pasturing the stock and for roads and lanes. But the land is but a small part of the expenditure. Buildings, machinery, horses, mules, horned cattle, carts, harnesses, tools, hogsheads, plants, fertilizers, etc., would require capital of nearly \$90,000.

The St. Augustine estate, yielding 2,300 hogsheads of sugar, has an invested capital of \$200,000. To this must be added 10 per cent.

per annum for the interest of the money and depreciation.

There are two kinds of sugar made in Trinidad, the crystallized or vacuum pan, Nos. 1, 2, and 3, and muscovado. The former has not only the advantage of being a high-priced sugar, but the machinery

by which it is made is capable of making sugar of molasses.

There are 15 estates now making vacuum pan sugar at a cost of £10 10s. per ton. The invoice-price at present is \$3 for 100 pounds. This sugar is always shipped in bags. The muscovado is still made by the old-fashioned machinery that is in use in the greater part of the plantations of the island. This sugar is being made on some estates at £8, on others at £9, and on others at £9 10s. per hogshead. The sugar is selling here at \$41, or only £8 10s. 10d. per hogshead. It is shipped in hogsheads, tierces, and barrels. several reasons for the difference of the cost. Highly enriched land on one estate yields two hogsheads, to the acre, while the neglected land of another yields only half as much, the first saving much labor in making the same quantity of sugar. One estate may have a larger proportion of indentured coolies, which is the cheap-One estate may have a better manager and overseers than another. Whatever causes there may be, it is quite likely, I expect, that, unless there is an advance in the prices of sugar, many estates will sooner or later have to be abandoned. As yet, however, they continue to struggle, but I am informed that in some instances they are simply weeding their canes until their maturity next winter, when, unless there is a change in prices, their crops will be abandoned.

These people are hoping and believing that the United States Congress will reduce the duties on sugars next winter, which would benefit the Americans very much, and save the West Indians from ruin.

Taxes.—Per annum: On the land 1s. (24 cents) per acre; each room of the barracks (the house of the coolies) having a valuation of £5 4s.; on every such room of greater valuation than £5, 7½ per cent. on the valuation of the room; on each indentured coolie over ten years of age, £1 (\$4.86).

This latter tax requires an explanation: Each indentured coolie costs the Government £18 when he is landed from Calcutta. The Government pays seven-tenths and the planter three-tenths. The coolie serves five years, during which time the Government taxes the planter his three-tenths by the above £1 per annum and the export duty on the sugars. The coolie's pay is 29 cents per day, free rent and free hospital. The unindentured coolie is a person having served his time of five years, and now hires himself out at task work on a plantation. He usually makes 40 to 50 cents per day.

Of course the indentured coolies are the cheapest laborers. These are distributed among the plantations as they arrive from Calcutta.

More than half are free, unindentured men and less than half are indentured on the estates. Certain estates, where the death roll of their coolies has been above a certain percentage, are allowed no more coolies from the Government.

It is estimated that two-thirds of the cost of sugar is for labor. The attorney receives \$7,000; the manager receives \$1,500; the overseers receives \$800 per annum.

Duties.—Export duties, 96 cents per hogshead; import duties,

\$2.40 per 100 pounds.

# Exports for 1886.

Whither exported.	Quantities.
United Kingdom British North America British West Indies United States All countries of South America	
Total	108, 528, 940

Although the greater part of the high-priced sugars go to England, it is gratifying to notice that more than two-thirds of all the sugars of Trinidad are sent to the United States. Almost all vessels taking these sugars sail from this island to New York; the others to Boston and the Delaware Breakwater, for orders.

# Estimate for 1,000 hogsheads of sugar.

1,200 acres of land, at 30s. per acre (\$720).  Great building.  Machines, boiler, pans, etc Residence for the manager Residence for the overseer.  Other buildings.  Horses and mules.  Carts, harness, tools, etc Painting.  Hospital and medicine	\$8,640 10,000 30,000 5,000 2,000 2,000 26,400 3,000 600 3,000
Capital invested	90, 640 9, 064
Cost of making the muscovado sugar at £9 per hogshead	48, 200 41, 000
Loss	2, 200
Cost of making the sugar at £8 per ton.  Market value per hogshead, \$41.	38, 400 41, 000
Profit, not counting interest and depreciation	2,600
Value of crystallized sugar, at \$3 per 100 pounds, equal to \$60 for 2,000—60 by 1,000	60,000 50,400
Profit, less interest and depreciation	9,600

Moses H. Sawyer,

United States Consulate, Trinidad, August 20, 1887.

Consul.

# TURK'S ISLAND.

# REPORT OF CONSUL HANCE.

Product.—No sugar is produced in any portion of this colony.

Duties.—Upon refined sugar there is an import duty of \$2.02 per 100 pounds, and upon muscovado and all other kinds there is an import duty of \$1.01 per 100 pounds.

Trade.—The importation of sugar into this colony within the six

months ending June 30, 1887, was as follows:

Whence imported.	Quality.	Quantity.	Value.
United States		Pounds. 20,636	\$840.8
Do	Muscovado, etc.	3,880 10,284	189.04
Trinidad	do	10,284	281.47
Porto Rico			<b>63</b> . 18 1 <b>05</b> . 98
Jamaica			24.85
St. Thomas			68,04
San Domingo	do	24, 460	955. 90
Hayti	do	84	4, 8
Total		64, 984	2,583.6

Jos. L. Hance, Consul.

United States Consulate, Turk's Island, W. I., August 6, 1887.

# DANISH WEST INDIES.

### SANTA CRUZ.

### REPORT OF CONSUL TURNER, OF ST. THOMAS.

Soil, climate, etc.—The growth of sugar-cane in the Danish West Indies is confined exclusively to the island of Santa Cruz, neither the island of St. Thomas, which is purely a coaling station and port of call, nor St. John being cultivated in any manner whatsoever except in a very limited degree, and hence not worthy of mention.

Santa Cruz is situated in latitude 19° south and longitude 64° west; has a climate that is unsurpassed, the temperature not varying more than 25 degrees throughout the year, the general range of the thermometer in winter being about 70 degrees and in summer about 84 degrees. The soil is a light, sandy loam, with but little clayey substratum.

Cultivation.—In seeking for information relative to the production of sugar it has been difficult to secure accurate information, for, although each planter keeps a general account of revenues and expenditures, yet it is rarely the case that the expenses attendant upon the cultivation of any one field with a definite number of acres are especially noted and compared with the results obtained from the crop produced on such area. In most cases a general approximate estimate is made as to the cost and production.

Preparatory to a general report upon the subject of this dispatch, early in the present year I prepared a dozen questions upon sugar cultivation, production, etc., which I forwarded to twenty planters, with the request that the replies be given as fully and as explicitly as possible. To those queries I received only four replies, two of which only gave any definite information. From authoritative sources I was informed that the only estates where an exact and specified statement of outlays and production was kept were those under the control of the colonial government, but, upon inquiry, I found that those accounts were not open to public scrutiny, nor could the figures be obtained. I was, however, fortunate enough to have access to the books of an estate on which an effort has been made to arrive at the cost of cultivation and the proceeds of such cultivation. The preparation for a crop and its general cultivation is as follows:

The land is fallow plowed, harrowed, and cleared of all weeds, etc., and, where manure is to be had, generally the field is manured under the bank—that is, the field is scored out by the plow in furrows 4½ feet apart, and the furrow is filled with the manure and afterwards covered in with the plow, when the field is ridged or banked up, after which the new furrow is dug out deeper with the hoe by manual labor, called "haling." In some cases a subsoil plow is used. The plants are cut from the top of the cane 9 or 10 inches long and are put in from 2½ to 4 feet apart, according to the judgment of the planter. This is considered the best system where time will permit, but, unfortunately, the land is very often just merely ridged or banked over the old cane roots or stools and planted roughly without manure, in which case the manure is applied to the young plants when they are about six months old, or earlier, according to circumstances.

Three yearly crops are generally taken from a field thus prepared, viz, plants, firs tratoon, and second ratoon, after which the land is permitted to rest or lie fallow for six or nine months, when it is replowed and prepared as above. Sometimes it is plowed and cultivated immediately after the canes are cut off, such a course, however,

being a heavy drain upon the soil and known as "forcing."

The cultivation of the ration is as follows: Immediately after the plant crop is taken off, or as soon thereafter as circumstances will permit, the trash, or stubble, is removed from the cane root or stool and kept on the bank. The cane root is molded either with the hoe or, in most cases, with a light molding plow (No. 17). After it has sprouted well and grown over the bank it gets its last molding, and the trash is scattered around the plants. The estate is thus divided into four parts, one-fourth in plants, one-fourth in first rations, one-fourth in second rations, one-eighth in fallow, and one-eighth kept for getting plants.

The best planting season is in the months of December and January, and most planters finish in February, when the cropping season commences and the grinding of the cane begins. The general yield from the plants is about 3,000 pounds of sugar per acre; from first ratoons, 1,500 pounds, and from second ratoons, 800 to 1,000 pounds.

The want of good agricultural implements is severely felt in the island. The use of foreign manure is almost unknown, but some of the estates near the eastern part of the island have the advantage of getting manure from the various stock farms located thereabout.

The grinding of the cane, as stated, begins about the latter part of

February and closes generally late in July or August.

In order to arrive at the cost of cultivation, an estate owner and practical manager of an estate, before becoming a proprietor, went with me carefully through his estate books and accounts and gave me the cost of production on 12 acres of land from the planting of the canes, and the first crop therefrom in 1884, including the first ratoon in 1885, and second ratoon in 1886, the last crop from that plant. The figures are as nearly accurate, I presume, as can be procured in the entire island. I have tabulated the information given, and therefrom it will be found that the cost of the 12 acres for the first crop was \$712.70, and that the value of said crop was \$776.25, or that the cost of cultivation per acre was \$59.40, and the value of the crop per acre was \$64.69, showing but very little margin when the question of taxation is still to be considered. For the first ratoon the cost of cultivation, etc., was \$172.30, and the value of the crop from the same was \$501.90, or the cost per acre was \$14.37, and the value of the crop per acre was \$41.82. For the second ration the yield is estimated in the table at 14 hogsheads, or 21,000 pounds, but that piece was not cut last year, but this year vielded 18 hogsheads, so that the 14 hogsheads is a fair estimate of the yield. The cost of production and the value of the crop was the same as the preceding year.

Cost of production and yield on 12 acres of land for the plant crop; also, first ratoon and second ratoon.

	Cost of production on 12 acres.		Yield on 12 acres and its value.			
Crop.	For what purpose expended.	Amount.	Produced on 12 acres.	Price per pound re- ceived.	Value.	
Plant	Manure, Plowing, Laborers after the plow Cost of plants Labor for planting	\$270.00 87.50 86.00 48.00 5.00		Cents. 24		
	Supplying plants.  Weeding Cutting canes and tying up Transportation to tramway Transportation to factory	10.00 86.00 26.20 90.00 104.00				
	Total	712.70	34,500		<b>.776. 25</b>	
First ratoon	Molding and weeding	86.00 18.00 55.00 63.30		2.89		
	Total	172.80	21,000	• • • • • • • •	501.90	
Second ratoon.	Molding and weeding	36. 00 18. 00 55. 00 68. 80		2.89	501.90	
	Total	172.80	21,000		501.90	

The cane grown on this estate is not crushed or ground on the estate, so that the expenses mentioned in the statement referred to do not include cost of running the works necessary to the expression of the cane juice, and consequent reduction of the same to sugar, except by a less amount of sugar returned to the planter from the central

**\$1.281.75** 

works, as I will explain. There is located in the eastern end of the island a factory under government control, to which the canes on the estate in question are transported by tramway, so that the only expenses which can accurately be taken into consideration are the cost of transportation to the tramway and thence to the factory. For every one hundred pounds of canes carried to the factory six pounds of sugar are returned, the factory being remunerated for the reduction of the canes to sugar by such an amount of sugar as can be produced exceeding six pounds to every hundred pounds of cane. From this it will be seen that though the cost of reducing the cane to sugar may not be given in the table, yet it is indirectly given by the reduced amounts of sugar returned to the planters as yield.

The land referred to was manured only when in plant canes, that is, once in 4 years. Where pen manure was the fertilizer 600 barrels to one acre were used, either plowed into the land or applied when the plant was a suitable height. Where droppings only were used, 125 barrels to the acre were applied, the cost of which was 18 cents

per barrel on the estate and applied to the land.

177 harrels of sugar

The total number of acres on the estate referred to is 544, of which 225 are cultivated and 285 uncultivated or pasture land. The cultivated land is divided as near as possible into four sections of 56 acres each, one in plant canes, one in first ratoon, one in second ratoon, and one in fallow, one-half of which is allowed to grow up for plant tops. For the year 1886, 175 acres were in cane cultivation, which produced 258½ hogsheads of 1,500 pounds each, giving an average per acre of 2,216 pounds. The entire production and the value of the same from that estate for the year 1886 were as follows:

2184 hogsheads of sugar (1,500 pounds each). 2,267 gallons of molasses 12 puncheons rum (1,803 gallons)	7, 967. 14 235, 21
Total	9, 788. 52
The expenses for the same period were:	
Estate supplies (lumber, nails, paints, etc.) Corn-meal Oil-cake Manure Stock Manager's salary Overseer's salary Horse tax Medicine and doctor's fees. Veterinary surgeon Eleven immigrants, at \$8 each Taxes Laborers Miscellaneous.	300.80 44.00 607.00 85.00 1,200.00 160.00 6.20 93.70 19.50 88.00 821.25 3,772.00
Total	7,688.99

The laborers were divided as follows: 40 first-class, 50 second-class, 6 third-class, 11 cartmen, 6 pasture-men (hostlers, etc.), 3 tradesmen (coopers, carpenters, etc.), and 41 day laborers irregularly employed. If, instead of sending cane to the central factory, the mill on the estate had been in operation, the expenses attendant thereupon might

be put down as follows, the figures being taken from the actual accounts for the year 1882, when the crop and its value was as follows:

	Weight.	Value.
247‡ hogsheads sugar 122 casks rum 34 puncheons rum	Pounds. 871, 200 81, 098 25, 780.	\$14,848,94 8,943,94 1,029,23
Total	478, 084	19, 121. 41

The expenses for running the mill were as follows for one day:

	No.	Expenses
Engine driver or engineer	. 1	\$0.4
Boiler men	. 8	.8
BoysFiremen	. 2	.8
Ory megass carts	. 2	.5
Freen megass care  fen and women for throwing cane to the mill	. 2	۵.
am ieegep	. 1	1.8
Cane carts	. 8	2.1
Total		8.4

The crop of 1882 was taken off in 69 days, in which the cane was ground on the estate and not at the central factory. This crop would have made 318 hogsheads of 1,500 pounds each, while it took under the arrangement with the factory 120 days to take off the crop of 1886, which made only 258 of 1,500 each.

Entire production of sugar and yield per acre on each of three areas of land, as well as the general average for the aggregate area for the years 1884, 1885, 1886.

		188 <b>4</b> .			1885.			1886.	
Class of crop.	Acres.	Number hogs- heads, 1,500 pounds each.	Number pounds per acre.	Acres.	Number hogs- heads, 1,500 pounds each.	Number pounds per acre.	Acres.	Number hogs- beads, 1,500 pounds each.	Number pounds per acre.
Plant canes First ratoon Second ratoon	66 67 68	127 76 51	2,886 1,702 1,125	68 66 46	75 68 82	1,788 1,545 1,044	54 61 60	1014 864 704	2,819 2,127 1,762
Total	ž01	254	1,896	175	175	1,500	175	258}	2, 216

Rain-fall.—The rain-fall on the estate in question for 1886 was 32 lines, or 4 inches. The statement inclosed gives the rain-fall for the years 1885, 1886, 1887. The average rain-fall throughout the island, by government report, was for the year ended March 31, 1885,  $27\frac{183}{288}$  lines, and for the same period ended  $34\frac{7}{48}$  lines, 8 lines being equal to 1 inch.

To value the estate I have referred to above by the acre would be a difficult matter, as property is not sold in that manner, but always the estate entire. In April, 1881, the price paid for it was \$29,000, and it is considered to be worth about the same at present. The rate of interest that prevails is 5 per cent.

Average rain-fall, in lines, on estate-mentioned, for each month and year, for each year ended 1885, 1886, 1887, 8 lines being equal to 1 inch.

Month.	1885.	1896.	1887.
	Lines.	Lines.	Lines.
January		27, 50	9,00
February		27, 25	4.75
March	8.00	10.25	1.00
April	4/\ \	77.00	1.50
May	10.75	8.25	40.25
June	5.25	25.25	56, 75
July		15.50	18,50
August		<b>82.</b> 00	51.25
September		<b>84</b> , 00	
October	114, 25	<b>49</b> . 00	[ <b>.</b>
November	44.50	68,00	1 <b>.</b>
December	88.25	12,00	
General average	27.67	82,00	22.87

Labor.—Laborers are divided into three classes, the first class being paid 20 cents per diem, second class 12 cents, and the third class 8 cents; the laborers furnishing their own food. Each laborer is allowed a room or house 10 by 12 feet and 40 feet square of land for cultivation of vegetables, but although this is the general contract, yet frequently they are allowed as much ground for such a purpose as they can cultivate. Women and men alike, irrespective of sex, are first, second, and third class laborers. Medical attendance is furnished by the planter at his own expense. The working year contains 260 days, and the working days of each week are from Monday to Friday, inclusive, 5 days per week, and the working hours are 9 daily, beginning at 7 o' clock a. m., and ceasing at sunset, with 2 hours' allowance for dinner. For extra work on demand, generally when the cane mill is in operation during crop time, 7 cents extra per day are allowed. Wages are payable at the end of each week.

Taxes.—The taxes upon the estates are of two classes, viz, upon land in sugar cultivation and upon land in other cultivation, including pasturage (except land that is useless), in both of which cases the tax is upon area and not upon value. For taxes upon land in sugar cultivation the following are the classes and rate average per acre:

	Canta.
Cultivation tax	
New tax. Immigration tax. Cavalry and artillery tax.	· · · · · · · · · · · · · · · · · · ·
Total	

The cultivation tax is apportioned on all estates in proportion to the sugar crop of each estate in the last year, but in such a manner, however, that no estate be assessed a higher tax than 64 cents per acre. The immigration tax was instituted by a royal ordinance of September 13, 1885, by which the land treasury of the island was empowered to raise loans to the amount of \$60,000 to defray the expenses connected with the immigration of laborers, and to defray the interest on this loan and to provide a sinking fund the tax of 10 cents per acre was imposed.

The taxes on land in other cultivation, which includes pastures and all land except that which is entirely useless, are as follows:

Ground tax, per acre	Oents. 134 10
Total	231

There is an absolute tax, in addition to the above, paid by owners of estates who live in foreign countries, Denmark excepted. It is estimated upon the value of the sugar production on each estate, determined by the custom-house valuation in accordance with quotations in New York and London, 10 per cent. being taken from such valuation as a basis, and then 5 per cent. on the remaining amount for the absentee tax.

Trade.—The countries of shipment are given in the subjoined table for two successive years, the official report for the third year, ended March 31, 1887, not having been completed. From the consular records, however, I obtained the amount exported to the United States. It will be seen that for the year ended March 31, 1887, the official fiscal year, 2,886,418 pounds more sugar were sent to the United States than for the year ended March 31, 1886. I have the official statement given me, that for the year ended August 31, 1887, 16,004,660 pounds sugar were exported to the United States, nearly the entire crop. The number of acres in cultivation has not changed materially in the last twelve years as the inclosed table will show. fact, in the last twelve years a less number of acres by a thousand was cultivated than in 1865-'66, but the figures show that with that much less area over 5,000,000 pounds more sugar was made in 1885-'86 than The reason for the increased yield with the same or less in 1865–'66. acreage is due to improved facilities in the manufacture of the sugar as well as closer management of the estates:

Export of sugar and the value thereof from Santa Cruz to various countries for the years ended March 31, 1885–1886 and to the United States only for the year ended March 31, 1887.

Years.	Denmark.	Europe.	United States.	St. Thomas.	Total quantity.	Total value.
1884-'85 1885-'86 1886-'87		Pounds. 11, 981, 958 6, 528, 398 (*)	Pounds. 7, 988, 120 7, 789, 727 10, 626, 145	Pounds. 558, 122 325, 363 . (*)	Pounds. 24, 514, 870 17, 560, 041	\$644,880.84 449,186.50 811,588.55

\* No official report made yet.

Duties.—The export tax is 5 per cent. on the value of the sugar, now fixed by the custom-house authorities at 2½ cents per pound. The

import duty on loaf-sugar is 12 cents per pound.

Production.—There is in the island, as I have stated in the beginning of this report, a central factory. There are stations throughout the island for grinding the canes from those estates which have contracts with the central factory, and the cane juice is carried by means of pipes for several miles to a reservoir at the central factory. There the liquid is impregnated with lime to prevent acidity. Then when the liquid is being reduced to sugar the lime is extracted by chemicals. I am unable to give any exact information as to the man-

agement of this factory other than such as I subjoin, which is a reply to a letter of inquiry addressed the superintendent in charge,

as no information is given out for publication.

The central factory's campaign for 1886 lasted from the 8th of March to the 14th of July. During this time the head station worked uninterruptedly day and night, with the exception of a few days at Easter and Whitsuntide, ninety-six days and twelve hours. At the factory's five grinding stations there were received 98,958,310 pounds of canes, Danish weight, 100 pounds Danish being equal to 112 English pounds.

The sugar produced was as follows: First product sugar, 6,486,180 pounds; second, 936,972 pounds; third, 361,080 pounds; total, 7,784,232

pounds, or 5,190 hogsheads, of 1,500 pounds each.

The first-product sugar polarized 97; second, 92.8; third, 85.8.

One ton of cane yielded: 146 pounds first-product sugar (160 strikes); 21 pounds second (180 strikes); 8 pounds third (55 strikes).

The machinery in use is European, and the power is steam.

The above is all the exact information I can obtain from the factory. Before closing this report I desire to state that the officials have been uniformly courteous to me, giving me such information as lay in their power.

Acres of cultivated, uncultivated, and useless lands on all the sugar estates in the island of Santa Cruz, for the years ended March 31, 1866, 1876, 1886, 1887, with total sugar production for each year.

Year.	Land in sugar culti- vation.	Land other- wise culti- vated, in- cluding pastures, etc.	Useless	Total.	Total yield.	
1865-'66	16, 835 16, 507	Acres. 29,791 80,660 81,825 29,643	Acres. 8,777 8,678 8,846 4,989	Acres. 51,170 51,168 51,178 51,179	Pounds. 12, 262, 300 15, 388, 620 17, 925, 202	

The following statement shows the production of sugar on one of the best estates in the island, where the latest improved machinery is in use:

# Land in cultivation:

Land III Cultivation.		
Plants	acres	280
First ratoons		
Second ratoons		
Canes ground (net)	pounds	18, 094, 440
Crop: Vacuum-pan sugar. Molasses	•	
Vacuum-pan sugar	pounds	1, 245, 220
Molasses	gallons	9,100
Rum		12,650

MORTIMER A. TURNER,

Consul.

United States Consulate, St. Thomas, W. I., September 16, 1887.

# FRENCH WEST INDIES.

# GUADELOUPE.

## REPORT OF CONSUL BARTLETT.\*

Production.—The product of sugar in the French colony of Guadeloupe for the year ended December 31, 1886, was 88,297,307 pounds. This year it will be very much larger, for up to the 1st of August there have been 114,530,566 pounds exported, and it is thought by those who appear to be well informed that the product this year will exceed 132,300,000 pounds.

Taxes.—There are no direct local charges on plantations in the

shape of taxes.

Duties.—At the last regular session of the general council the export duty on sugar was reduced, on an average, from 3 to 2 francs per 100 kilograms; varying a few centimes, more or less, according to the commune where the sugar is produced. This export duty is in lieu of a direct tax on the plantations, and the greater portion of the money collected is returned to the communes, where the sugar is produced.

The importation of foreign sugar is prohibited.

Trade.—For the year ended December 31, 1886, the exports were—

То	Pounds.
France	. 74, 360, 758
French colonies	45, 428
French colonies	. 5, 936, 301
Other countries	. 519, 157
Consumed in the colony	7, 422, 692
Total	88,284, 831
This year, up to the 1st of August, there were exported	to—
France	27, 783
Total	114, 530, 566
Charles Bartl	ETT,

United States Consulate, Guadeloupe, August 20, 1887. Consul.

# MARTINIQUE.

# REPORT OF CONSUL GARESCHÉ.

Production.—The total sugar production of the island of Martinique in the year 1886 amounted to 29,724 tons. Of this quantity 24,130 tons were usine sugar and 5,592 tons were plantation sugar.

The extent of the production of sugar has been largely reduced of late years by the increased manufacture of the juice of the cane into molasses, the latter being afterwards converted by process of distillation into rum.

Taxes.—Sugar plantations are not subjected to any local charges or taxes of any description.

<sup>\*</sup>The quantities in this report were reduced, in the Department, from kilograms to pounds..

Duties.—As regards export duties, all varieties of sugars have to pay the regular charge, fixed at one franc per 100 kilograms (220 pounds) in 1886, but which has this year, 1887, been reduced to one-half franc per 100 kilograms.

The importation of foreign sugars was prohibited by a decree dated March 31, 1887. French sugar pays an entry duty of 16.01

francs per 100 kilograms.

Trade.—Refined sugar, the only kind imported into the colony, has been almost exclusively shipped from French ports. The amount received from foreign countries is of no importance. In regard to exportation, all white centrifugal sugars go to France. In 1886 only 916 tons were sent to Cadiz and 25 tons to the Lesser Antilles. Of the plantation sugars, 4,863 tons were shipped to the United States and 77 tons to Nova Scotia.

WM. A. GARESCHÉ, Consul.

United States Consulate, Martinique, September 6, 1887.

## HAYTI.

#### CAPE HAYTIEN.

## REPORT OF CONSUL GOUTIER.

Sugar is not produced in this consular district; that consumed, principally crushed, comes from the United States.

The imports during the last twelve years were as follows:

White sugar imported from the United States into Cape Haytien during the twelve years ending December 31, 1886.

Years.	Quantities.	Years.	Quantities.
1875. 1876. 1877. 1878. 1879.	Pounds. 145, 148 198, 212 288, 286 111, 645 145, 282 155, 435 222, 957	1882 1883 1884 1885 1886	90,08

The import duties on every 100 pounds of white sugar are computed as follows:

Import duties	\$3.00 .12 .05
Additional 50 per cent	8.17 1.59 1.46
Total	5.88

STANISLAUS GOUTIER,

Consul.

United States Consulate, Cape Haytien, August 10, 1887.

#### PORT AU PRINCE.

# REPORT OF CONSUL-GENERAL THOMPSON.

Production.—The production of sugar in this portion of the island of San Domingo is very limited. Nearly all of the cane is used in making sirup for home consumption; it is taking the place of sugar. But the small amount of crude sugar that is produced is mostly shipped from this city. In the fiscal year 1882-783 there were 2,161 pounds shipped from Aux Cayes.

Taxes.—There are no local charges on plantations. No taxes.

Duties.—No export duty on sugar. The import duty on foreign

sugars is \$6.90 per 100 pounds, French weight.

Trade.—The extent of sugar trade commencing with the fiscal year ending June 30, 1885, is fully exhibited in the following table for this district:

. Fiscal years.	To United States.	To Europe.	Total.	Value of export to United States.
1884–'85	Pounds. 198, 261 96, 098 15, 400 85, 874	Pounds.	Pounds.	\$7,059
1885–'86		87,058	980, 814	2,940
July 1 to December 81, 1886		289,872	975, 465	815
1886–'87		105,005	190, 405	1,827

This Government, in its effort to encourage the production of sugar, permits the shipper of crude sugar to import free of duty refined sugar to the extent of 70 per cent. of the amount exported by him.

John E. W. Thompson. Consul-General.

United States Consulate-General, Port au Prince, August 16, 1887.

#### SAN DOMINGO.

#### REPORT OF CONSUL ASTWOOD.

Production.—The production of sugar in this consular district, comprising San Domingo, Macoris, and Azua, was as follows for the year 1886:

Districts.	Quantity.	Value.
San Domingo	Pounds. 18, 365, 628 ·14, 441, 518 2, 690, 569	\$690, 908. 74 488, 627. 89 100, 025. 31
Total	85, 497, 715	1,849,271.10

Local charges.—There are no local charges of any kind whatever

on the plantations.

Duties.—There is an export duty of one-fourth cent per pound, Mexican currency, on all sugars manufactured, irrespective of quality or grade, with the exception of concrete or melado, manufactured by one sugar estate only, which pays a special duty, under concession, of 12½ cents, Mexican, per 100 pounds.

The import duty on foreign sugars is as follows: Muscovado or brown sugar, \$2.12 per 100 pounds; crushed sugar in barrels or boxes, \$3.18 per 100 pounds; refined sugar, \$5.33 per 100 pounds; loaf-sugar,

\$6.36 per 100 pounds; sugar in candies, \$15.90 per 100 pounds.

Exports.—The sugar trade of this district is almost exclusive with the United States; the total amount shipped to foreign countries during the year 1886 did not exceed 38,000,000 pounds, of which 35,497,715 were shipped to the United States; the balance, the product of a Frenchman's sugar estate, being shipped direct to Europe.

H. C. C. Astwood,

United States Consulate, San Domingo, August 19, 1887.

Consul.

#### PUERTO PLATA.

# REPORT OF CONSUL SIMPSON,

Production.—The production of sugar in this district during the past season (ending September 30) amounted to 3,115,118 pounds, as against 2,424,610 pounds for same period, 1886; a gain of 695,008 pounds.

Taxes.—There are no local charges on plantations.

Duties—Export duties are collected at the rate of 25 cents per quintal on centrifugal or muscovado, and 19½ cents on concrete.

The import duties (general and municipal) on foreign sugars amount to \$3.16 per quintal on centrifugal, \$2.91 on muscovado and \$3.24 on cut-loaf.

Trade.—The total production is shipped to the United States.

Thos. Simpson,

United States Consulate, Puerto Plata, September 30, 1887. Consul.

# SPANISH WEST INDIES.

## CUBA.

#### REPORT OF CONSUL-GENERAL WILLIAMS.\*

I inclose tables showing the exports of sugar-cane products shipped from the various ports of this island to the United States and to other countries during the first quarter of the present year, with the following exhibit of the percentage sent to each of these two destinations, viz:

Port from whence shipped.	To the United States.	To other countries	Port from whence shipped.	To the United States.	To other countries.
Havana Mantanzas Cardenas Sagua la Grande Caibarien Nuevitas Gibara	704 992 100 100	Per cent.	Guantanamo Santiago de Cuba Manzanillo Zaza	100 82 100 100 100	Per cent. 18

<sup>\*</sup>No report having been received from Consul-General Williams in answer to the sugar circular, this report is republished from No. 69 of the regular consular series, issued for the month of October, 1886.

In forming these tables I have followed the usage here, and adopted the hogshead of sugar of 1,500 pounds net weight as the unit of weight, reducing all other kinds of packages thereto, according to the scales below:

Scale for sugar.—1 hogshead sugar = 1,500 pounds, net weight; 1 bag sugar = 300 pounds, net weight; 5 bags sugar = 1,500 pounds = 1 hogshead; 1 box sugar = 400 pounds, net weight; 3\frac{1}{2} boxes sugar = 1,500 pounds = 1 hogshead.

Scale for molasses.—140 gallons = 1 shipping hogshead; 70 gallons = 1 shipping tierce; 35 gallons = 1 shipping barrel; 1 gallon = 10 pounds, and 1 gallon =  $\frac{700}{100}$  parts

of sugar; 7 pounds sugar = 1 gallon of molasses.

Therefore, 1 hogshead molasses = 980 pounds of sugar. Scale for rum.—1 pipe = 11 hogsheads molasses.

The accompanying general statement, wherein are recapitulated all the tables, shows that the products of the sugar-cane crop of Cuba exported during the quarter under consideration have found their consuming markets abroad in the proportion of 93.55 per cent. in the United States, and only 6.45 per cent. in other countries.

No sugar-cane products have been exported from the important port of Baracoa during the first quarter, the shipments from there having been comprised exclusively of fruits, all of which, or say 100 per cent., went to the United States, and nothing to other countries, as shown by the inclosed table of the exports from Baracoa during the first quarter of the present year.

RAMON O. WILLIAMS, Consul-General.

United States Consulate-General, Havana, June 25, 1886.

# Exports during the quarter ending March 81, 1886.

[Hogshead of sugar of 1,500 pounds weight, net, as unit of measure.]

	To the Unit	ted States. To other countries			
Ports of shipment.	Sugar.	Per cent.	Sugar.	Per cent.	
lavana	Hogsheads. 40,714 60,859 71,207 81,878	.701 .991 100 100	Hogsheads. 17,028 70	. 29	
aibarienuevitasibarauantanamo	16, 344 2, 727 1, 844 12, 271	100 .99 100 100	28	.01	
ntiago de Cuba	4,811 8,917 700 2,504 42,427	. 82 100 100 100 . 951	943	.18	
Total	291, 198	. 804	20,058	.04	

To the United States	er cent. 98.55 6.45
	100.00

Recapitulation of statements of exports of the sugar-cane products of the Island of Cuba to the United States and to other countries, during the quarter ended March 31, 1886.

						To the	United S	tates.			
Ports of shipm	• ent			,	Sugar.			······································	Molass	ies.	
10tes of Simple	<b></b>		Hbds.	Do and	Tierces.	Bags.		Hhds.	Tierces.	Barrels.	Pipes.
favana fatanzas Jardenas Sagua la Grande Saibarien Juevitas Hibara Santiago de Cuba Huantanamo Janzanillo Trinidad Sienfuegos Saza Saracoa* Total			37, 5 16, 5 4, 6 1 3 6 1, 7 15, 2	58 56 85 21 07 78 85	74	170, 46, 44, 56, 12, 7, 21, 58, 15, 2, 125,	818   28 094   35 327   8 902   787 141   098   179   399   1 299   1 299   2 500	,540 ,548 ,488 ,189 ,446 ,90 ,167 ,271 ,847 ,498	2, 302 3, 829 787 7 52 800	78  80 164 	18
	To	the Uni	ted St	ates.		7	Co other	count	ries.		
Ports of shipment.		Melado	•	Rum.		Sugar.	<del> </del>	1	Molaese	s.	Run
2 Or to Or Emperore.	Hhds.	Tierces.	Barrels.	Barrels.	Hbds.	Вадя	Boxes.	Hbds.	Tierces.	Barrels.	Pipes.
lavana latanzas ardenas agua la Grande albarien uevitas	626	20			1,817	41,908 851	12,061	109			8,6
ibara antiago de Cubauantanamo [anzanillo			•••••	50		1,660					7
Trinidad Sienfuegos					14	6,026	7	671	196	iii	2

\* No exports of sugar-cane products.

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SUGAR CROP OF CUBA, 1886-'87.

[From the Pais, Havana, July 8, 1886.\*]

The Situation, of Sagua, says, that upon information obtained from intelligent and experienced planters the sugar crop of 1886-'87 in that district will show a diminution of not less than a third part compared with the crop just gathered of 1885-'86.

This will be due not only to there not having remained over any fields of standing cane, as last year, but also to the drought that has lasted for forty-five days, stopping

the growth of the rattoons and killing the spring plantings.

There is, besides, another cause why the coming crop must diminish. This is the abandonment in which a great number of sugar plantations are left on account of the owners being without cash or credit to pay for the weeding and cultivation of their fields. On the other hand, the perspective of prices and the increased exactions imposed by the Government this year have discouraged even the richest and the most enterprising of the planters, for which reason the autumn plantings were relatively so small, whilst those of spring amount almost to nothing.

# CARDENAS.

# REPORT OF COMMERCIAL AGENT CHURCHILL.

Production.—Total production of sugar in this jurisdiction for the year 1887 was 134,593 hogsheads of 1,500 pounds each, valued at

\$37.50 per hogshead.

Charges.—Government tax on each hogshead of sugar, \$1.50; freight of empty hogsheads to the sugar estate, 25 cents; cost of empty hogsheads, \$4; freight to Cardenas per railroad, \$2.50; storage in Cardenas, 50 cents; one-half per cent. brokerage on sale, 15 cents; total, \$8.90

Duties.—Export duty, \*\$1.50; cost of hogshead, \$5.50; wharfage, 25 cents; launching, 50 cents; one-half per cent. brokerage, 15 cents;

shipping commission 2½ per cent., 94 cents; total, \$8.84.

Import of foreign sugars prohibited.

Trade.—Of the product of this crop 98 per cent. was exported to the United States.

James M. Churchill, Commercial Agent.

United States Commercial Agency, Cardenas, Cuba, July 29, 1887.

## CIENFUEGOS, TRINIDAD DE CUBA, AND ZAZA.

#### REPORT OF CONSUL EHNINGER.

The following statement is calculated from the data in the possession of this consulate and of the agencies at Trinidad de Cuba and Zaza, supplemented by information obtained from trustworthy sources:

Production.—The total crop of 1886-'87, as calculated from the aforesaid data, for this district is 84,942 tons. This embraces the sugar produced in this district which has been shipped from Cienfuegos, Trinidad, and Zaza, the stock on hand awaiting shipment on

July 31, 1887, and the amount reserved for local consumption.

I would remark, however, that over 9,000 tons have been withdrawn from the natural zone of this port and shipped by way of Sagua la Grande, owing to the high rates of transportation on the local railroad line and the superior inducements offered by the Sagua line. This addition would have given to this consular district 94,000 tons which properly belonged to it.

<sup>\*</sup>The export duty has been abolished since this dispatch was written. See report of Consul Conroy, San Juan, Porto Rico.

Taxes.—There is a Government tax of 2 per cent. on the net proceeds of each plantation, and a municipal tax of from 4 to 6 per cent. likewise assessed on net production.

Duties.—The export duties, which were undergoing a gradual reduction, have been entirely abolished since the first of August of this

year.

The importation of foreign sugar into the Island of Cuba is prohib-

ited by law.

Trade.—Extent of sugar trade with the countries of shipment is as follows: To the United States, 69,777 tons; to Spain and Great Britain, 6,967 tons; total, 76,744 tons, being in the proportion of 90.79 per cent. to the United States and 9.21 per cent. to other countries.

The stock on hand, for shipment, on July 31, was 6,770 tons; reserved for local consumption, 1,428 tons; total, as before stated,

84,942 tons.

HENRY A. EHNINGER, Consul.

United States Consulate, Cienfuegos, August 3, 1887.

#### MATANZAS.

#### REPORT OF VICE-CONSUL HEIDEGGER.

Production.—It is impossible to get at the correct statistics of the production of sugar in this district, as a large quantity of same is forwarded direct from the sugar estates, either by rail or sea, to the ports of Havana and Cardenas for shipment; nevertheless I am at present trying to obtain a list of all the sugar estates of this district and their production last year. I shall have the pleasure to forward same as soon as all the necessary data will be to hand. The best way to get an idea of the production is to refer to the statement of exports from this port, which will be found under the head of "Trade."

Taxes.—Sugar estates pay taxes as follows: To the general (state) government 2 per cent. on the net income of the estate, and 16 per cent. extra on the amount of the above 2 per cent. This tax of 16 per cent., though collected by the state government, is mentioned in the receipts of the government as municipal tax, and is said to be handed over to the municipality of the respective districts.

To the municipal government 6 per cent. on the net income, calculated as above, and 2 per cent. extra of the amount of the above 6 per cent. Whenever a deficit results to the municipality (and such is generally the case), this deficit is levied in equal proportionate

parts among the sugar estates of said municipality.

To arrive at the net income of a sugar estate, the average crops of one year for the past five years is taken into account, and after deducting 60 per cent. from the given amount for expenses of production, the sum remaining is considered the net income of the estate per year. The last valuations of the sugar estates, made some two or three years ago, are now entirely too high, considering the heavy decline that sugar has experienced lately; in fact, there are very few sugar estates at present in the island which can be considered as having really a net income.

Duties.—Export duties on sugar, molasses, and rum have been abolished since the 1st of August. The import of foreign sugars is prohibited in this country.

Trade.—The exports from this port for the past four years and seven months, say from January 1, 1883, to July 31, 1887, were as

follows:

Years.	To the United States.	To British North America.	To Great Britain.	To Spain.
1888. 1884. 1885. 1886. Up to July 81, 1887.	Tons. 81, 874 82, 848 88, 619 100, 866 74, 457	Tons. 1,260 2,027 138 2,768 288	Tons. 1,826 83 6,001	Tons. 487 896 1,965 866 661
Total	422, 159	7, 176	9, 458	4,815

Total exports to all countries for four years and seven months, 443,608 tons. The distribution of the trade is as follows: 95.16 per cent. to the United States; 1.62 per cent. to the British provinces;

2.13 per cent. to Great Britain, and 1.09 per cent. to Spain.

Under this heading I have also to bring under notice molasses, which does not find any other outlet than the United States. The exports of molasses for the same time as above amounted to the large quantity of 242,759 hogsheads, which, at the low average of 140 net gallons per hogshead, is nearly 34,000,000 gallons. The molasses refiners of the United States calculate that a gallon of molasses testing 50°, which is the average test, produces an average of about 4½ pounds of sugar, making the production of molasses-sugars from this district 69,517 tons, or an average of 15,168 tons of sugar per year derived from this source.

The export of molasses from this port to the United States from

January 1, 1883, to July 31, 1887, was as follows per year:

		Hogsbeads.
1885		40, 195
1887 (up to July 8	81)	45,753
Total		242 759

Each hogshead containing about 140 gallons net, the whole is equal to 33,986,260 gallons, or 7,415,184 gallons per year.

United States Consulate,

Matanzas, August 11, 1887.

HENRY HEIDEGGER, Vice-Consul.

# SAGUA LA GRANDE.

# REPORT OF COMMERCIAL AGENT MULLEN.

Production.—The production of sugar at this port is calculated at about 78,440,000 tons, American; about 12,000 tons are received here from other ports; making a total of 90,440 tons.

Charges.—The municipal and state charges are calculated at about

9 per cent. on probable product.

Duties.—The export duties have been removed since August 1, 1887. There are no imports of sugar at this port.

Trade.—The sugar trade is almost entirely with the United States,

the exports to Europe being very insignificant.

About 24,000 hogsheads of molasses, of 150 Spanish gallons per hogshead, are also produced annually.

D. M. MULLEN, Commercial Agent.

United States Commercial Agency, Sagua la Grande, August 2, 1887.

# SANTIAGO DE CUBA.

# REPORT OF CONSUL REIMER.

Production.—The production of sugar, taking the crop just finished, in my consular district was as follows:

Districts.	Quan	tity.	Equivalent in tons.
Santiago. Guantanamo Manzanilio. Santa Crus	Hogsheads. 824 2,064 395	Bags. 71,852 205,598 83,185	11, 862 82, 490 18, 186
Total		860, 180	57,088

Local charges.—Government tax on net earnings 2 per cent., usually calculated on five years' average; municipal tax varies and can go up to 6 per cent., usually calculated in same way as Government tax. As an example, the Guantanamo estates, which produced 32,490 tons of sugar, paid: State taxes, \$11,022.49; municipal, \$30,-689.25; total, \$41,711.74 (Spanish). In other words, an estate making, say, 1,000 hogsheads per year, or 5,000 in five years, considering the average market price in Cuba for the last five years, say 25 per cent., or 1,250 hogsheads, and on these, calculated on this average market price, the government tax of 2 per cent. is imposed. The same with municipal tax, only the rate per cent. is fixed according to the needs and necessities of the municipality in which the estate is situated. In order to further the sugar industry of the island of Cuba, sugar estates pay no taxes, either government or municipal, for the first five years of their existence.

Duties.—Export duty abolished about August 1, 1887. It then amounted to about 14 cents per 100 pounds. Machinery imported into this island for the use of making sugar pays 1 per cent. on in-

voice value.

The importation of any raw sugar is prohibited, with the sole exception in favor of Porto Rico, which pays 82½ cents per 100 kilo-

grams.

Trade.—I may say that all the sugar produced goes to the United States. For this crop it is impossible to calculate the exact amount exported, as about 30,000 bags, more or less, are still held in store here by some of the large houses with the hope of a rise in prices. In giving the amount 30,000 bags, I calculate Guantanamo and this place.

## PRESENT CONDITION OF THE SUGAR INDUSTRY.

In order to give a better idea of the chief industry of this consular district I will endeavor to show the cause which led to the present unavoidable position of the Cuban sugar planter. Nature has always been very prodigal with him. The soil has yielded enormous results. I have seen cane fields that have yielded cane for twentyfive years with no more than some superficial plowing. Hands to plant his cane and work his mill were plentiful and the prices his sugar brought in the market left a handsome profit. When the decline came the Cuban planter was wholly unprepared for it. He could not make sugar at the lower prices, having no money wherewith to buy new machinery, and had to mortgage his lands and estate to make his crop, hoping for better times. These better times never came, and each year found him deeper in the mire; one estate after the other was abandoned and those planters that struggled on, and are struggling on, can hardly be said to own the estates, but had to give them into the hands of the capitalists that were compelled to advance money to save the amount already invested, and those capitalists have gradually taken charge of the more desirable estates.

Then the era of retrenchment came. Capitalists who gained possession of the estates in the manner above described looked about them for means of getting more sugar out of their cane, reducing working expenses, and, in fact, trying to make sugar to sell with a

profit, or at least not with a loss, at present prices.

In this way large estates were operated whose machinery crushed the cane and made the sugar for all the surrounding planters who

could not run their own mills.

To-day there are here, and in Guantanamo and Manzanillo, estates held by strong capitalists which can make sugarat \$2.50 per 100 pounds, thus leaving a small profit. The cost of transporting the sugar to the sea-board forms a very important factor in the financial success of a sugar estate. Thus the estates in undesirable localities, away from transporting facilities, are gradually being abandoned and new estates are formed in Guantanamo and along this south coast. from Cape Cruz westward, which are within easy distance of the port from which the sugar produced can be shipped. Also, all along the north coast of this province there are any number of navigable and safe bays which can be utilized for ports, and on their shores are thousands of acres of virgin soil adapted to the cultivation of Soon the necessity of utilizing these coast tracts of land will be felt, and I am convinced that capital investing to-day in such territory, utilizing the latest inventions in the way of sugar-making machinery, running the estates on business and economical principles, will find sugar making most profitable.

As it is now, the sugar estates, with few exceptions, represent more

capital than their actual value to-day.

Machinery.—Speaking of machinery, I regret to say that to my knowledge, in this province, there is not a new sugar mill of American make; all are French and English. Machinery imported into this island for the making of sugar pays a duty of only 1 per cent.

Labor.—Since the abolition of slavery the labor question in this

consular district has become more serious every year.

The Cuban workingman finds that he can settle where he pleases, paying a small tax to the Government. His hut he builds in a day, and prodigal nature satisfies his wants, which are few, without very much

exertion on his part. To clothe himself only a few dollars a year are necessary, and so the need of doing work becomes very small. He gets for a day's work from 80 cents up, and with 80 cents he can live for two or three days. The consequence is, that the industries of the country lose the labor of his hands at least two days of each week. This, with the limited population we have, is most serious. Various means have been tried to solve this question, and the last and most practicable has been to import labor from the surrounding islands. For instance, in Porto Rico the cost of living of the negro is almost equal to hire, and only 50 cents is paid for a day's labor. No doubt such people, who are both frugal and industrious, can be induced to come here to work at higher wages. The necessity of prompt action on the part of the owner of sugar estates to remedy this difficulty is apparent, and no doubt, as steps have already been taken, the near future will see a large importation of working people from the outlying islands to relieve this dearth of labor.

> OTTO E. REIMER, Consul.

United States Consulate, Santiago de Cuba, September 23, 1887.

# PORTO RICO.

#### REPORT OF CONSUL CONROY.

Production.—The annual production of sugar in Porto Rico is estimated at 170,400,000 pounds, valued at about \$4,000,000, viz:

Districts.	Quantities.	Value.
San Juan consular district Aguadilla agency district Arecibo agency district Fajardo agency district Guayamas agency district Naguabo agency district Ponce agency district Vieques agency district	13, 230, 000 17, 640, 000 28, 665, 000	\$1,000,000 150,000 500,000 800,000 400,000 800,000 200,000
Total	170, 446, 500	8, 950, 000

Taxes.—Government taxes are 5 per cent. on value of production. Municipal taxes are 50 per cent. of government taxes. These figures are generally augmented to cover deficiencies in the respective budgets.

Export duties.—By a royal decree promulgated at Madrid July 28, 1887, for the colonies, duties have been suppressed on sugars, molasses, and rum exported from the islands of Cuba and Porto Rico. This decree went into effect on the 1st of August, 1887. All classes of sugars and molasses have heretofore paid export duty, viz: sugars, per 100 kilograms, 22 cents (Spanish)—equal to 11 cents per 100 pounds; molasses, per 100 kilograms, 5 cents. Aguardientes, or white rum, is not quoted as paying export duty.

This decree suspending the export duty on sugars and molasses has already caused much animation in the market, but I am sorry to remark that there remains but a very small part of this year's crop to

be exported. The planters will not, therefore, be materially benefited by this concession this year.

Import duties.—Import duties on foreign sugars, \$9, Spanish coin,

per 100 kilograms, with 6 per cent. additional.

Trade.—The extent of last year's trade, together with countries to which the product was exported, will be seen by the following statement:

Whither exported	Quantities.	Value.
United States British America Spain England Danish West Indies Germany France Italy	21, 084, 308 13, 066, 830 8, 950, 095 1, 086, 350 88, 200 35, 290	\$2,870,890 590,585 885,200 263,827 30,520 2,624 1,025
Total	141, 627, 168	4, 145, 521

Although the crop of sugar this year has been more productive than in 1886, it is certain that there will be a deficiency noted next year on account of the reduced acreage under cultivation, and this circumstance is due to want of means on the part of sugar planters; who are mostly more or less in debt, and deprived of credit.

Edw. Conroy, Consul.

UNITED STATES CONSULATE, San Juan, Porto Rico, August 31, 1887.

# TARIFF LAWS OF NEW SOUTH WALES.

# REPORT OF CONSUL GRIFFIN.

The government of New South Wales, as predicted in my report on the tariff, transmitted to the Department of State in December last, and published in No. 75 of the Consular Reports, has returned to what is regarded as a free-trade policy. The new tariff act was passed by a vote of 39 to 13 in the House of Representatives, on the 23d of June last, and received the sanction of the legislative council a few hours before the adjournment of the colonial parliament on the 8th ultimo. The act, a copy of which is hereto appended, provides that it shall be deemed to have come into effect on the 30th day of March, 1887, and that the customs duties act of 1886 is hereby repealed, but that the repeal shall not affect the past operations of the former act, or anything commenced thereunder, and that the duties, both specific and ad valorem, heretofore levied shall be collected until the 30th day of September, 1887.

These duties also apply to goods in bond, if taken out before the

end of that period.

It is interesting to note that notwithstanding certain duties of a strictly protective character, and which have always been levied, that the policy of the government has been practically that of free trade since the year 1852. At various intervals, however, departures have been made and a large number of specific duties added, but they have never remained long in force.

Mr. Edward Pulsford, an able and scholarly statistician of this city, to whom I am principally indebted for the material of this re-

port, says it would not be difficult to show that "whenever the government abandoned the policy of free trade it invariably resulted in injury to the commercial interests of the colony." He is very decided in the opinion that wealth is most easily obtained when it is followed in natural channels, and that people will take up industries in the order of their value if they are left alone. "The fact," he says, "that valuable industries receive no attention is generally a proof that others still more valuable employ all the available labor."

Wool is the chief industry of New South Wales, and Mr. Pulsford attributes the rapid strides made in the industry to the free-trade policy of the government, inasmuch as the pastoralist has always been permitted to obtain his supplies of food and manufactured goods without having to pay prohibition duties to producers and manufacturers. The colony has therefore been enabled to carry on this vast industry upon the most favorable terms, and at the same time to receive the highest price for their products in the markets of the

world.

During the last decade New South Wales has increased the number of her sheep from 24,386,512 to 39,169,304, whilst the number in her sister colony, Victoria, in which the policy of protection prevails, declined during the same period from 11,749,532 to 10,652,118. woolen mills of New South Wales are not so numerous as those of Victoria, but they have been built up without artificial aid. torian mills, on the other hand, have been assisted with an ad valorem duty on woolens from 15 to 20 per cent., but even that has been insufficient to make the industry pay. At the last session of parliament an additional ad valorem duty of 5 per cent. was added, but the manufacturers have ever since been clamoring for a still further Mr. Munro, a member of the Victorian parliament and a manufacturer, stated recently in the assembly that the mill with which he was connected lost the whole of its capital, \$90,000, of which \$15,000 had been subscribed by himself, and that the woolen industry of the colony was on the verge of ruin. "The Ballarat mill," he said, which was regarded as the most substantial in Victoria, had not paid a profit for years, and that an ad valorem duty of 20 per cent. might possibly enable the mills to struggle along for a few years; then they would die an agonizing death. He did not think that even 50 per cent. ad valorem duty would make them profitable to their owners.

In 1876 the various woolen mills in Victoria gave employment to

611 hands, and in 1886 the number had increased to 980.

Besides the ad valorem duty of 20 per cent. it is estimated that the natural protection of having the wool on the spot is equal to fully

10 per cent. more.

The woolen mills in New South Wales do not employ more than 200 hands, but it can scarcely be said that they are any worse off than in Victoria. What is wanted for the benefit of the mills in both colonies is improved machinery, and not protection. The high cost of labor is one of the chief obstacles with which the manufacturers have to contend in the colonies, but it is a mistake to suppose that Victoria has all the manufactories and New South Wales none. The statistics heretofore published have never done New South Wales justice. It is true enough that Victoria has the advantage in such industries as the boot and shoe factories, furniture factories, iron interests, flour mills, etc., but there are many other manufacturing industries in which she must yield the palm of excellence to her more

enterprising sister. The statistics published last year represented the horse-power of the various factories in New South Wales at 4,860 to 20,160 for Victoria, but the new statistical register just issued shows the horse-power in New South Wales to be 25,192 instead of

4,860.

The value of the New South Wales plant is given at \$25,010,000 against \$23,270,000 for Victoria. The number of hands employed is 45,783 for New South Wales and 49,297 for Victoria; but the New South Wales figures do not represent the number of hands employed as chaff cutters, corn crushers, jewelers, and workmen in the royal mint. If these were added, as in Victoria, New South Wales would show a larger number of hands than her sister colony. The population of the two colonies is about the same and is given at 1,030,000 each, but the increase during the last decade has been at the rate of 49 per cent. in New South Wales to only 23 per cent. in Victoria. Both the imports and exports have for many years been much larger in New South Wales than in Victoria. Indeed, the average annual excess of the former colony is nearly \$30,000,000. The following are the figures for 1885: Imports, \$90,223,020; exports, \$77,758,920; total Victoria, \$167,981,944. Imports, \$116,805,980; exports, \$82,208,-720; total New South Wales, \$199,014,600. Excess in imports and exports for New South Wales, \$31,032,700.

The comparison of the shipping between the two colonies is even more favorable to New South Wales, as the average annual tonnage of the latter colony is 1,000,000 tons in excess of that of Victoria.

Both colonies have, however, enjoyed a fair degree of prosperity, and it is no more likely that one will abandon the policy of protec-

tion than the other that of free trade.

The most sweeping change in the tariff of New South Wales is the abolition of the ad valorem duties; next to that is the repeal of the specific duties on as many as fifty-seven different articles. The following is a list of the articles upon which heretofore specific duties were levied but are now admitted absolutely free:

Acid (acetic). Acid (tartaric). Aerated waters. Arrowroot. Bags (calico). Bags (paper, plain). Barley (pearl). Baking powder. Blue. Bi-carbonate soda. Bolts, nuts, screws. Canvas. Cream of tartar. Cordials. Cordage and rope. Dates. Effervescing powders. Fruit salts. Gelatine and isinglass. Ginger. Glue. Groats (patent). Honey. Hops. Iron (bars and rods). Iron chains. Lard. Lead.

Malt. Mustard. Meat (preserved). Meat (extract). Nuts. Oatmeal. Pepper and spices. Paper (brown). Paper (circular). Paper (writing). Pickles and sauces. Playing cards. Putty. Plaster. Pitch, tar, and resin. Provisions (vegetable). Provisions (preserved). Rice flour. Saltpeter. Safes, iron doors. Soap. Soda crystals. Turpentine. Vermicelli and maccaroni. Vinegar. Wax. Wool-packs, Zinc.

#### DUTIES ON AMERICAN PRODUCTS.

It is to be regretted that specific duties are retained upon a number of articles usually imported from the United States. The most important of these are the duties on timber, tobacco, cigars, biscuits, beer, bacon, hams, cement, corn, flour, maizena, confectionery, essences, flavoring extracts, dried and tinned fish, condensed milk,

kerosene, paints and varnish, butter, sugar, etc.

Timber.—The duty on timber is 3 shillings (73 cents) per 100 superficial feet on dressed and 1s. 3d. (36 cents) on rough or undressed. The timber trade with the United States has been increasing for many years, and while the duties may for a time check the imports, the colony will continue to draw on America for no inconsiderable portion of its timber supply, as the Australian hard woods are not so suitable for building purposes. Doors, sashes, and shutters pay duty of 2s. (48 cents) each, but shingles, palings, and laths are admitted free.

Beer.—The duty on beer is 6d. (12 cents) per gallon in wood or casks. If in bottles it is 9d. (18 cents) per gallon. Six quarts, or

twelve pint bottles, are regarded as containing one gallon.

The beer duty includes all kinds of beer, ale, porter, spruce, cider, and perry. The imports of bottled beer have increased largely during the last few years, especially from the United States. The imports from that country during the year 1886 amounted to 244,470 gallons, valued at \$281,350, against 90,727 gallons, valued at \$77,685, for 1885, and 43,055 gallons, valued at \$53,445, for 1884.

The superb quality and flavor of the American product have made it very popular, not only in New South Wales, but throughout Australasia. The quantity of beer manufactured in New South Wales during the year 1886 was 13,178,912 gallons, against 14,716,000 gallons

for 1885.

The new tariff places an excise tax of 3d. (6 cents) per gallon upon all beer manufactured in the colony. This tax met with much opposition on the part of the brewers, who urged that it was more than double the tax in Great Britain, and that it would not only fall heavily upon the consumer, but tempt manufacturers to supply an inferior article. The tax, however, was allowed to remain, and it is the first time that it has ever been levied in the colony.

Bacon and hams.—The tax of 2d. (4 cents) per pound on bacon and hams has been levied and collected here ever since 1871, and it has utterly failed to be of the slightest benefit to the colony. In fact, at no period in the history of the colony has the curing of bacon been so much neglected. Moreover, since the tax was levied the number of hogs in proportion to the population has steadily declined. In 1861, the decade previous to levying the tax, the number of pigs in the colony was 162,556 and the population 421,924.

The subjoined table, which has been prepared for me by Mr. Pulsford, shows in the form of five periods of three years each the num-

ber of pigs to every 100,000 of population.

Table showing the supply of pigs in New South Wales for every 100,000 population.

Periods.	Average supply.	Periods.	Average supply.
1861-'70 1871-'78 1874-'76	41,870	1877-'79. 1880-'82. 1888-'85.	29,085

These figures show unmistakably that since the duty was imposed New South Wales farmers have been unable to supply the population with hog products. Only in two out of the sixteen years has the actual number of pigs ever equaled the number in 1870, and even then they were far below the supply of that year on the basis

of population.

Butter.—The duty on butter, 2d. (4 cents) per pound, is retained. This duty was only imposed last year, but prior to that period the exports of New South Wales butter frequently exceeded the imports. There appears to be no necessity for the duty, as the colony is able to produce more butter than it can consume. The export of butter for 1886 was 287,029 pounds, against 352,212 pounds for 1885, showing a decline of 65,183 pounds for 1886. The cause of the decline was

principally the dry season.

Cheese.—The duty on cheese, 2d. (4 cents) per pound, is also retained. There is, however, no more necessity for this tax than for that on butter, as the colony, except in seasons of drought, has considerable quantities available for export. The cheese made here is of excellent quality, most of the factories being conducted upon the American principle. The factories on the south coast are especially worthy of praise. The "Wolumla Cheese Factory," one of the best conducted in the colony, has adopted the piece system. A number of families are employed on the station, and each has its own proportion of the milking herd. The yield in good seasons is about 700 gallons per day from 350 cows. The morning's and evening's milk is placed in American vats with false bottoms, into which hot water or steam is injected to raise and maintain the temperature of the milk. The curd is cut into small segments, put into metal cylinders, and then into a lateral press, whence it is compressed to any required degree. There are two American steam vats at the station, each containing 400 gallons, and an American steam gang press. Blanchard's (American) cylindrical churn, revolved by steam power, is employed, capable of making 120 pounds of butter daily. The butter is not allowed to be handled, as that method spoils the "grain." The butter and cheese manufactured at the station command the highest price in the Sydney market. Much care is taken with the cheese throughout the process of manufacture, and it is not allowed to leave the storing room until sufficiently cured.

Candles.—The tax on candles is 2d. (4 cents) per pound. This duty is strictly of a protective character and is intended for the benefit of the manufacturers here. It falls heavily upon the people in the country districts, who are away from the gas supply and are obliged to pay a high price for their light, or else put up with an indifferent

article.

Tobacco.—The duty on manufactured or unmanufactured tobacco for home consumption is 3s. (73 cents) per pound. Unmanufactured tobacco, or manufactured leaf, if entered at the customs to be manufactured in the colony, has to pay a tax of only 1s. (24 cents) per pound. It must, however, be used in a licensed tobacco factory for manufacturing purposes. The admission of this class of tobacco at 1s. (24 cents) per pound is regarded as quite a concession to the tobacco manufacturers; New South Wales having taken the lead of all the other Australasian colonies in the manufacture of tobacco.

During the year 1886 New South Wales imported 2,353,497 pounds of tobacco, against 1,835,598 pounds for the year 1885. Of the imports for 1886, 1,384,036 pounds consisted of manufactured and 507,916

pounds of unmanufactured or manufactured leaf; 310,694 pounds of

cigars; 49,923 pounds of cigarettes, and 928 pounds of snuff.

During the same period the colony grew 2,570,000 pounds of tobacco. Victoria grew 1,538,000 pounds and Queensland 148,960 pounds. The quantity of tobacco manufactured in New South Wales in 1886 was 2,044,000 pounds. The quantity manufactured in Victoria was 1,368,000 pounds, thus showing an excess for New South Wales over

Victoria of 676,000.

Last year there was an excise duty of 1s. (24 cents) per pound on all tobacco manufactured in the colony. This gave the colonial manufacturers an advantage of 2s. (48 cents) per pound. regarded as an enormous advantage, and the Government increased the excise duty to 1s. 3d. (30 cents) per pound. The increase of 3d. (6 cents) per pound in the excise tax awakened much opposition on the part of the various factories in the colony. Public meetings of the tobacco manufacturers and tobacco workers were held in Sydney denouncing the tax. It was said that if it went into force over 1,000 hands would be turned out of employment. Deputation after deputation waited upon the colonial treasurer with a view of having the tax repealed. The treasurer, however, firmly refused to alter the duty. He said that the manufactories were using 3 pounds of colonial grown leaf to every 1 pound of imported leaf, and that they had already a heavy concession. He pointed out that the revenue on tobacco had been declining from year to year, and that the profit must have gone somewhere. He gave as a further reason for the increase of duty that the consumption of the colonial leaf was increasing, whilst that of the imported was declining, and that the Government, failing to obtain revenue from the leaf, must obtain it from the tobacco. When the excise duty was fixed at 1s. (24 cents) per pound it was supposed that manufacturers would use the imported leaf, upon which they paid 1s. (24 cents) per pound duty, with equal quantities of the colonial leaf, upon which they paid no duty; but, as the treasurer stated, they have from year to year increased the quantity of the colonial leaf and lessened that of the imported. It is admitted, however, that the colonial leaf is not as suitable for manufacturing purposes as the imported, and the manufacturers here state that in order to produce a good article of tobacco they must have the leaf from the United States.

Confectionery.—This article pays a tax of 2d. (4 cents) per pound, or £18 13s. 4d. (\$90.84) per ton. This tax seems inexplicable when the duty on sugar is only £5 (\$24.33) per ton. It is not expected that confectionery should be admitted free when sugar is taxed, but there ought to be something like uniformity. The equivalent of sugar duty would be about £7 (\$34.06) per ton.

Jams.—Jams pay a tax of 1d. (2 cents) per pound; but the sugar in 1 pound of jam is covered by a  $\frac{1}{4}d$ . ( $\frac{1}{2}$  cent), so that the other  $\frac{3}{4}d$ .

 $(1\frac{1}{2} \text{ cents})$  is a protection.

Sugar.—The tax upon refined sugar is 6s. 8d. (\$1.62) per cwt. Raw sugar, as previously stated, is £5 (\$24.33) per ton. The various governments of Australia are much exercised over the question of the foreign bounties on sugar. They are especially indignant at the bounty system of France and Germany, and steps of retaliation, for the purpose of protecting the sugar refineries, have been from time to time threatened by all the colonies, but Victoria is the only one in the group that has actually adopted retaliatory measures. The Hon. D. Gillies, premier and colonial treasurer, in issuing his

budget, at the opening of the Parliament of Victoria on the 26th ultimo, said:

The government have determined to increase the duty on sugar imported into the colony, and alter the tariff in the direction of protecting the industry from the unfair competition of bounty-fed sugars and encouraging the refining industry.

He contended this was not a question of free trade or protection. "The government were not interfering," he said, "with competition between individuals, but between the state and individuals, which was an unfair competition."

The duty on all imported sugar, 3s. (73 cents) per cwt., was repealed and the following substituted to take effect immediately: Sugarcane, 3s. 6d. (85 cents) per cwt.; sugar-cane, bonded and refined Victoria, 2s. 6d. (60 cents) per cwt.; beet and all other sugars 6s.

(\$1.46) per cwt.

Mr. E. W. Knox, of New South Wales, in a recent paper on the subject of sugar bounties, says that a continuance of the present bounties for five years will break up three-fourths of the Australian sugar plantations. Mr. Pulsford, however, contends that more injury has resulted to the cane-sugar industry from the improvements in beet culture than from the payment of bounties. He cites the fact that the beet now yields 12 per cent. of saccharine matter, instead of 4 per cent. as formerly. Thus when formerly 100 tons of beet root yielded only 4 tons of sugar, the same quantity now yields 12 tons. Other authorities give the yield at much higher figures. Mr. Knox says, in the communications mentioned above, that beet root not unfrequently yields over 20 per cent.—a sweetness which he had met with only once or twice in his own records, which referred to a large quantity of cane each year—and that there is strong reason to believe that this sweetness can be still further increased.

Tinned Fruits.—Tinned fruits and preserves are taxed at 1d. (2 cents) per pound. This duty is also of a strictly protective character. Several local factories have recently improved the quality of their products, through the importation of machinery and skilled labor from the United States; and it is said that competition between the American and local article is likely to be very keen, especially in pears, peaches and pineapples, the last of which are not produced in the colony, but are brought here for canning purposes from the adja-

cent islands.

Spirits.—Spirits pay a tax of 14s. (\$3.40) per gallon. This is an enormous duty, being nearly twice as much as in the United States, and 2s. (48 cents) more per gallon than in Victoria. The tax 14s. (\$3.40) per gallon applies to all kinds of spirits imported into the colony, the strength of which can be obtained by "Sykes's hydrometer." The law provides that no allowance beyond 16.5 shall be paid for the under-proof of any spirits of a less hydrometer strength than 16.5 under-proof. Spirits in bottles containing over one gallon and under two gallons are charged as if containing two gallons.

Perfumed spirits.—Perfumed spirits, Florida water, and bay rum are taxed at the rate of 15s. (\$3.65) per gallon. I have endeavored to point out to the customs authorities that these extracts cannot be imported and sold here at a profit under the present tariff. I have not been able as yet to obtain a decision in favor of the admission of those articles at a more moderate duty, but it is probable that some concession will be granted, inasmuch as the spirits cannot be used

for drinking purposes, or in any other manner than in the combinations of the several flavors.

Bay rum.—The tax of 15s. (\$3.65) per gallon on bay rum is unreasonably high. This article is made by a decoction of bay leaves in spirits. It is not manufactured in the United States, but imported there from St. Thomas, West India Islands, in bulk and bottled by Burnett & Co., of Boston, Mass., and by others.

Iron.—Galvanized iron, in bars, sheets, or corrugated, pays a tax of £2 (\$9.73) per ton. Iron wire is taxed at the rate of £1 (\$4.86) per

ton.

Paints.—Paints and colors ground in oil are taxed under the new tariff at 3s. (73 cents) per cwt.

Varnish.—This article pays a duty of 2s. (48 cents) per gallon.

Kerosene.—The tax upon kerosene is 6d. (12 cents) per gallon. This was levied when kerosene sold in the United States at 3s. (73 cents) per gallon, and now, when it is worth 4d. (8 cents) per gallon, this enormous duty, 6d. (12 cents) per gallon, which is equal to 150 per cent. ad valorem, is still retained. It is unquestionably of a prohibitory character, and is continued not for the amount of revenue to be derived therefrom, but for the purpose of protecting the products of the Australian Kerosene Oil and Mineral Company at Mittagong, 77 miles from Sydney, and the New South Wales Shale and Oil Company, at Hartley, 83 miles from Sydney. These companies make from 150,000 to 200,000 gallons of kerosene per annum by an expensive process of extracting oil from the shale product, which I have described in my reports on the kerosene trade of this colony.

Mr. Charles McClure, of this city, who has given much study to the existing trade relations between the United States and Australasia, in a communication, under date of the 3d instant, directs my attention to the various advantages enjoyed by the colonial manufacturers of kerosene in being exempt not only from the heavy import duties, but from the payment of freight, landing, and wharfage charges, and the charges for storage in bonded warehouses, all of

which the importers of American kerosene have to pay.

Mr. McClure thinks that the trade is handicapped by about 3d. (6 cents) per gallon from the wharfage, landing, and storage charges. If to these charges we add the duty of 6d. (12 cents) per gallon and  $\frac{1}{2}d$ . (1 cent) per gallon for freight and leakage during the voyage from New York or Boston, it will be seen that the local article enjoys a protection of fully 10d. (20 cents) per gallon. Moreover, purchasers residing in the district beyond the colonial oil works are enabled to save the cost of freight from Sydney, to which the imported article is subjected. When an effort was made at the last session of parliament to have the import charges on kerosene modified it met with much opposition on the part of the friends of the home product. It was said that the two companies had expended the sum of about \$700,000 in erecting their works, which give employment to a large number of hands. It was also said if the tax was removed the local industry would be destroyed and that foreign capitalists would be shy of investing money in a country which refused to protect its industries. In former reports I have expressed the opinion that the colonial oil would not compare favorably with the American product. Exception, however, was taken to this opinion by experts, and for my dwn information I purchased samples of both kinds of oil, and after using them in lamps of precisely the same

pattern I am free to confess that I could discover very little difference between them.

I have thought it best to mention this fact that exporters of American kerosene may know exactly what they have to contend with. The trade in American kerosene is, however, steadily increasing.

In 1883 the imports of kerosene from the United States into New South Wales amounted to 488,609 gallons; in 1884 to 496,612 gallons; in 1885 it had swelled to 1,105,771 gallons, and in 1886 to 1,289,227 gallons. In urging the reduction of the duties upon American products it should not be forgotten that it is to the interest of the Australian as well as to the American that the trade with the United States should be fostered. During the year 1886, a year of great depression to the colonies, the United States was the only country in all the world that increased her export trade with Australia. imports from Britain to New South Wales in 1886 were nearly \$10,000,000 less than in the year previous; and from Germany declined from \$1,862,785 in 1885 to \$1,838,160 in 1886; France, from \$1,726,155 to \$1,180,960; Belgium, from \$976,590 to \$899,155; China, from \$1,517,995 to \$979,650; South Sea Islands, from \$184,645 to \$182,455; New Caledonia, from \$410,905 to \$324,760. The imports, however, from the United States increased during the same period from \$5,042,865 to \$5,193,865.

# THE REPEAL OF THE AD VALOREM DUTIES.

The repeal of the 5 per cent. ad valorem duties is regarded as a great boon, not only to importers but to all classes of people. would be difficult to estimate the benefits which will result therefrom, when we consider the various interests which were affected by them. The duties operated against thousands of different articles. Under the head of drapery alone, more than one hundred items were affected, not to mention the large number of articles under the heads of drugs and hardware. In looking over the list it seems that almost everything was taxed, such as arms, brushware, carriage-makers' materials, bricks, cutlery, drugs, dye-stuffs, lamp-ware, passengers' luggage, saddlery, specimens of natural history, watches, clocks, and so on through a long list of items, all of which are exempt under the new law. The repeal of the duty on machinery will be certain to increase the imports of that article from the United States. It is now very generally known in Australasia that American machinery is much simpler in construction, and in every way better adapted to the wants of the people than that made elsewhere.

Sir Julius Vogel, the colonial treasurer of New Zealand, stated not long since, in a speech at Auckland, that his government, from patriotic motives, ordered from Great Britain a number of locomotives of the same pattern as those from the United States, but that when they were nearly ready for shipment they were found to be so heavy that the engineer in charge of the New Zealand roads stated that the bridges would have to be strengthened before the locomotives could be put on the roads, and that they were much heavier than the plans and specifications called for. The English manufacturers stated that they could not make the engines of the limited weight. New Zealand government thereupon cabled to the United States for

the required supply.

The receipts from the ad valorem duties, during the time they were in force last year, amounted to \$1,370,425, and the estimated receipts from the same source for the present year up to the 30th of September, at which period they will cease to be collected, are \$1,500,000. The loss from the advalorem and other duties that have been repealed are to be made up principally from the increase in taxes on spirits, beer,

tobacco, coffee, and sugar.

The total receipts from all sources of taxation, during the year 1886 were \$13,059,075. Of this amount the customs yielded \$10,342,755; excise, \$549,165; stamps, \$1,539,965; and licenses from spirit dealers, brewers, auctioneers, hawkers, peddlers, pawnbrokers, tobacconists, etc., \$627,190. Total, \$13,059,075. The colonial treasurer estimates the receipts for 1887 at \$15,043,500; the customs, \$11,065,500; excise, \$1,447,500; stamps, \$1,900,000; licenses, \$630,500. Total, \$15,043,500. G. W. Griffin,

Consul.

United States Consulate, Sydney, August 8, 1887.

AN ACT for granting to Her Majesty certain duties of customs and for other purposes. [Assented to 8th July, 1887.]

Be it enacted by the Queen's Most Excellent Majesty, by and with the advice and consent of the Legislative Council and Legislative Assembly of New South Wales in Parliament assembled, and by the authority of the same, as follows:

1. This act may be cited as the "Customs Duties Act of 1887," and shall be taken to have come into operation on the thirtieth day of March, one thousand eight

hundred and eighty-seven.

2. The import duties mentioned in Schedule A, hereto annexed, shall be levied and collected upon the importation of all goods therein mentioned and upon all such goods in bond, which duties shall be in lieu of all duties heretofore chargeable thereon.

3. Subject to the qualifications and provisions in the two next following sections of this act expressed, the "Customs Duties Act of 1886" is hereby repealed, but the repeal thereof shall not affect the past operation of the said act nor anything law-

fully done or commenced thereunder.

- 4. Upon all goods specified or mentioned in Schedule A of the said "Customs Duties Act of 1886" which are not specified or mentioned in Schedule A of this act, and which are not referred to in the next following section of this act, the respective duties authorized to be levied and collected by the said act of 1886 shall continue to be levied and collected until and including the thirtieth day of September, one thousand eight hundred and eighty-seven. And upon all goods liable under the said act of 1886 to ad valorem duties such duties shall be levied and collected until and including the said thirtieth day of September, one thousand eight hundred and eighty-seven. And such duties shall in respect of both classes of goods be levied and collected upon all such goods which may be in bond at any time between the commencement of this act and the thirtieth day of September; one thousand eight hundred and eighty-seven, inclusive, if taken out of bond on or before such last-named day. And for the purpose of levying, collecting, and enforcing payment of all duties mentioned in this section the provisions of the said act of 1886 may be applied, notwithstanding anything contained in the last preceding section of this act.
- 5. The duties authorized to be levied and collected by the "Customs Duties Act of 1886" upon malt and hops respectively shall continue to be levied and collected under the said act until and inclusive of the thirtieth day of April, in the year one thousand eight hundred and eighty-seven, and no longer.
- 6. All contracts made on or before the thirtieth day of March, one thousand eight hundred and eighty-seven, for the sale or delivery of any goods otherwise than in bond the duty on which is increased or decreased by this act shall be subject to an increase or decrease in the contract price of such goods corresponding in rate and amount with the amount of such increase or decrease of duty as aforesaid: Provided, That it shall be at the option of either of the parties to any such contract, by notice in writing under his hand, to be served on the other contracting party or his agent being a party to such contract or agreement within fourteen days after the

passing of this act, to declare such contract or agreement null and void, and the

same shall thereupon be null and void accordingly.

7. If any person shall have been required on or after the thirtieth of March, one thousand eight hundred and eighty-seven, to pay import duties upon any goods mentioned in Schedule A of this act according to the rate prescribed by Schedule A of the "Customs Duties act of 1886," he shall be entitled to a refund of the difference between the sum chargeable under the first and that chargeable under the second of the said schedules.

8. All goods imported for the supply of Her Majesty's service shall be exempt from all duties and imposts of every description whatsoever, and nothing in this act contained thall be deemed to alter or repeal the provisions of the "Customs

Regulation act, 1879."

9. All powers and authorities conferred by the customs regulation act in force for the time being upon the collector or any other officer of customs may be exercised and enforced by such officers in the administration of this act.

# Schedule A.

, ,	Rate	United States equiva- lent.
Beer, ale, porter, spruce, or other beer, cider, and perry:  In wood or jar	0 1	\$0. 12 . 18 . 18
Candles per lb. or reputed package of that weight and so in proportion for any such reputed weight and stearine per lb.  Cement per barrel.  Cheese, bacon and hams per lb.	0 1	.02
Chicory dandelion, and taraxicum:  Raw or kiln-dried	6 6	. 12 . 08 1 . 46 1 . 46
Corn, flour, and maizena	0 4	.08
Raw	0 0	.12
Containing not more than 25 per cent. of proof spirit	14 (	8.40
Liquid and sirup	5 ( 40 (	9.78
Iron and steel wire	20 (60 (60 (60 (60 (60 (60 (60 (60 (60 (6	14.60
Naphtha and gasoline	0 0	3 .12 3 .12 3 .86
Reputed pints		3 .18 .12 0 4.86
Paints and colors ground in oil	0	.48
Blasting powderdo  Dynamite and lithofracteurdo  Shotper cwt	0 :	.02 1 .03 1 .21

# Schedule A—Continued.

	Ra	te.	United States equiva- lent.
Beer, ale, porter, spruce, or other beer, cider. and perry—Continued.  Preserved jellies and fruits boiled in pulp or partially preserved other than by sul-	8.	d.	
phurous acidper lb		1	\$0.02
Riceper ton	60		14.60
Sago, tapioca, and semolinaper lb		1	.02
Salt	• 20	U	4.86
If containing not more than 25 per cent. of proof spiritper gallon	4	0	.97
If containing more than 25 per cent. of proof spiritdo	14	-	8.40
Spirits:		•	0, 10
On all kinds of spirits imported into the colony the strength of which can be as-			
certained by Sykes's hydrometer	14	0	8.40
No allowance beyond 16.5 shall be made for the under proof of any spirits of a less hydrometer strength than 16.5 under proof.	1		
On all spirits and spirituous compounds imported into the colony the strength of			
which can not be ascertained by Sykes's hydrometerper liquid gal	14	0	3.40
Case spirits—Reputed contents of two, three, or four gallons shall be charged—	1	•	0.30
Two gallons and under as two gallons.	1		
Over two gallons and not exceeding three as three gallons.	1		
Over three gallons and not exceeding four as four gallons.		_	
Methylatedper gallon	4	0	.97
Perfumed spirits, perfumed water, Florida water, and bay rumper liquid gal	15	0	3.65
Sugar: Refinedper cwt	6	8	1.62
Rawdo		0	1.21
Molasses and treacledo	8	4	.81
Tes	Ŏ	8	.08
Timber (other than laths, building shingles, dye-woods, palings, undressed sandal-	j		, , ,
wood staves, and casks in shooks):	_	_	_
Dressed per 100 ft. superficial Rough and undressed do do do do do do do do do do do do do	8	0	.78
Doors, sashes, and shutters	1 2	6	.86
Tobacco:	Z	0	.48
Delivered from ship's side or from a customs bond for home consumption—man-	l		
ufactured, unmanufactured, and snuffper lb	3	0	.78
ufactured, unmanufactured, and snuff			'''
moval from a customs bond or from an importing ship to any licensed tobacco	ľ		1
manufactory for manufacturing purposes only into tobacco, cigars, or cigar-	}	_	
ettesper lb Sheepwashdo		0	.24
sneepwasn	-0-	8	.06
Sparkling—for six reputed quarts or twelve reputed pints	1 10	0	2.43
Other kindsper gallon Other kinds for six reputed quarts or twelve reputed pints	5	ŏ	1.21
Other kinds for six reputed quarts on twelve reputed pints	5	ŏ	1.21

# FISHERIES OF NEW SOUTH WALES.

## REPORT OF CONSUL GRIFFIN.

The fisheries of New South Wales are becoming more and more important every year, and those interested in them look forward confidently to the time when they will prove an immense source of wealth to the colony.

The list of marine food fishes is a long one and the supply is practically inexhaustible, but strange to say no attempt has been made to utilize them as articles of export. A few individuals, however, from time to time prepare and send abroad small lots of smoked and dried mullet, schnapper, and bream; but such shipments are looked upon as experiments, rather than as a desire to establish a permanent trade. In fact, there are only two fish-preserving establishments in New South Wales, and these are so small as to give employment to only about eleven hands. The total value of their plant, according to the Statistical Register for 1886, is \$1,250. The annual output is not given, but it would probably not exceed \$1,000.

There are a number of fishes which could be prepared for export, but they appear at certain periods for a short time only, and there are no facilities at hand for utilizing them, even supposing they could

be found in sufficient quantities for the purpose.

The mullet (Mugil grandis) is the only variety which seems to offer any special inducement at present for tinning. They appear during the months of April and May in large shoals on the coast, never going far from land, and, proceeding in a northerly direction, enter almost every inlet and harbor. During these months the mullet is in the best condition and is full of roe, it being on its annual migration in search of spawning ground. This fish is said to be too fat to be preserved with salt and is apt to become rancid. The roe, however, when salted and smoked, is equal to anything of the kind in the world. The New South Wales royal fish commission especially recommends this fish for tinning purposes, and says that it has many of the properties of salmon. The form of the tin, it says, need not be like that used for preserving Californian salmon, but like the long

slender tins used by the Hollanders.

The flavor of the New South Wales mullet is certainly very fine, but it is, I think, not equal to the mullet caught in New Zealand waters. The fishes of Australia differ very little from those of Europe and America. Mr. I. E. Tennison Woods, F. L. S., F. G. S., etc., who has given much thought and labor to the fish fauna of Australia, points out the fact that the great mass of the fish of the coast and rivers of the great island continent have relations to those of the neighboring seas, or to those where the same conditions of temperature and coast line prevail. The difference in species where they exist, are minor ones. These differences are more marked on the southern than on the northern coasts, and Mr. Woods says that the more remote the Australian coasts are from other lands, the more peculiar and distinct are the forms of animal life. Thus on the north and northwest and northeast coasts the fauna is closely connected with that of the Indian and tropical seas, and is in very many species identical with it. The tribes of the colder regions are here wanting, and in places we have the fishes of the equatorial zone, in all their gorgeous liveries of red, blue, green, and gold, arrayed in those fanciful patterns which awaken the enthusiasm of every naturalist. We find also that as we go southward on either coast there is a gradual disappearance of the tropical fauna and a mingling of that of the temperate regions.

New South Wales occupying an intermediate position in Australia,

the fishes very naturally partake of an intermediate character.

Scientists enumerate several varieties of Australian fish, such as the *Ceratodus* and the *Cestracion*, which have disappeared from every other part of the world. The *Cestracion* (Port Jackson shark) has teeth like those of the fossil *Acrodis*, found in the mesozoic de-

posits.

The Ceratodus is described as an existing ganoid fish, exclusively represented in the Trias formation, its anatomy showing a connecting link between a lizard and a fish. Mr. Woods, in enumerating some of the exceptional fish of New South Wales, directs particular attention to several varieties of the frog fish, or Antennarius, belonging to the order Pediculati, a name which expresses the foot-like office of the fins, more fitted for walking on the ground than for swimming. These fish are found floating on the sea weeds. They are all highly colored, but their hues are associated with the sur-

rounding medium, so it is often difficult to distinguish them in the water.

Mr. Woods also directs attention to some peculiar gobies, or sea gudgeon, one of which is called the "hopping fish." The fins of this fish are developed into legs, with which it leaps along the mud flats. The eyes are on the top of the head and can be thrust far out of their sockets, and move independently of one another.

There are several varieties of sea horses in New South Wales waters, a name given from the shape of the head and the fore part of the body resembling that of a horse. One of the most striking peculiarities of the sea horse is that the male carries its eggs at the base of the

tail opening, near the vent.

The Phyllopteryx, Mr. Woods thinks, is the most remarkable fish in Australia, if not in the world. He describes it as—

The ghost of a sea-horse with its winding sheet all in ribbons around it; and even as a ghost it seems to be in the last stage of emaciation, literally all skin and grief.

The long ends of ribs which poke through the skin and excite compassion he says—

Are really protective resemblances and serve to allure prey. It is, therefore, an impostor in spite of its rags and emaciation, and, like many a sturdy human being, puts on the aspect of misery more effectually to ply his trade.

Among some of the curious and indeed wonderful fishes of Australia should be mentioned the dugong, or Halicore australis. This fish resembles the porpoise in shape and size, but is unlike it in having no dorsal fin. The skin is very thick and is said to make excellent leather. The bones are as heavy as ivory and partake of a beautiful polish; when struck together they give out a metalliferous sound. The eyes are small and deep set, like those of a fat pig. The tail is like that of a whale. The fins are very small for the size of the animal, and are its only propelling power. Its habits are those of a gramniverous ruminant, and its stomach is exactly like that of an ox.

The dugong not unfrequently weighs as much as 300 pounds and measures 14 feet in length and 10 feet in girth. Such an animal will yield 300 pounds of meat and 6 gallons of oil. It suckles its young and has flippers with joints like human arms. It frequents the sandy mud flats and shallows along the shores of Queensland, and feeds upon the grass growing thereon. It is now seldom seen south of Moreton Bay, Queensland, but formerly they were observed in the mouths of the Tweed and Richmond Rivers, in New South Wales.

The color of the dugong is of a light olive brown. Its flesh is rich and nourishing, and meat can be cut from the same animal resembling beef, veal, and mutton. John Ching & Co., manufacturing chemists of Dunheved Island, Queensland, make an oil from the dugong which, it is said, has all the properties of the best cod-liver oil. Dugong oil has, in fact, become an article of commerce, depots for its sale being established at Townsville and Sydney.

It is recommended by leading physicians for consumption, diseases of the chest, chronic bronchitis, and general debility. It is devoid of any unpleasant taste and may be used as a substitute for lard or butter. It is highly recommended for cooking fish and for the man-

ufacture of biscuits, pastry, etc.

#### FAMILIES AND SPECIES.

Fifty-nine different families and 361 species of New South Wales fishes have been described by Mr. I. E. Tennison Woods. The largest of these families, the *Percidæ* (the perch), is represented by 50 species. The next largest family, the *Sparidæ*, has 14 species; 16 have only 1 species and 8 only 2, and not quite half more than 3. The average is about 6.

I am indebted to Mr. Woods for the following table, showing the names of the different families of fishes found in the waters of New South Wales, together with the number of species belonging to each

family.

Name of family.	No. of species.	Name of family.	No. of species.
Percidæ. Squamipinnes. Nandidæ. Mullidæ	2 ;	Ophiocephalidæ Trachypteridæ Pomæcentridæ Labridæ	
Sparidæ Cirrhitidæ Scorpænidæ	6 11	Gadopsidæ Gadidæ Pleuronectidæ	
Teuthididæ Berycidæ Kurtidæ Polynemidæ	8 2 2	Siluridæ Scopelidæ Salmonidæ Galaxidæ	1 7
Sciænidæ Xiphiidæ Trichinridæ Acronuridæ	1 1 1	Scombresocidæ Culpeidæ Chirocentridæ Symbrachidæ	1
Carangidæ Cyttidæ Coryphænidæ	1 2	Murænida Syngnathidæ Sclerodermi	2
Scombridæ Frachinidæ Batrachididæ Pediculati	5	Gymnodontes Carcharidæ Lamnidæ Scyllidæ	
Cottidæ Cataphracti Gobiidæ	1 15	Cestraciontidæ Spinacidæ Rhinidæ	
Blenniidæ Byhyrænidæ Atherinidæ Mugilidæ	8 4	Pristiophoridæ Rhinobatidæ Trygonidæ Torpedinidæ	
Fistularids:	i	Raiidæ	1

Since the publication of this table a number of other fishes have been described by Mr. I. Douglas Ogilby, assistant zoologist in the Australian Museum at Sydney, to whom I am indebted for much of the material of this report.

#### EDIBLE FISHES.

The list of edible fishes is a large one and comprises 105 different

species.

Mr. Ogilby is of the opinion that some of the best food fishes of the colony are never seen in the market, but he places the Gerres ovatus (the silver or white bream) in the front rank of Australian fish. The Arripis salar (Australian salmon) comes next, but principally on account of the quantities in which it is found. It is of a greenish lead color, with the upper part of the body of a deep black, and numerous black spots on other parts of the body. The following is a list of all the edible fishes of New South Wales that have been described. It was prepared especially for me by Mr. Ogilby, and is corrected up to the latest date.

# Edible fishes of New South Wales, arranged systematically by I. Douglas Ogilby, assistant zōologist of the Australian Museum at Sydney.

Family.	Species.	Common name.
(1) Percidse (20 species)	Lates colonorum	Perch.
	Enoplosus armatus	Oldwife.
	Caprodon schlegelii	Long fin.
	Serranus dæmeli	
	Plectropoma ocellatumLutianus fulviflamma	Wirrah.
	Lutianus macleayanus	Macleay perch.
	Glaucosoma scapulare	Pearl perch.
	Macquaria australasica	
	Ctenolates ambiguus	Golden perch.
	Therapon cuvieri	Trumpeter.
	Therapon richardsonii	Silver bream.
	Therapon macleayanus	Door fok
	Lobotes surinamensis	Boar-fish. Silver billy.
	Gerres ovatus	
	Oligorus macquariensis	Salmon.*
	Arripis salar	Red bull's eye.
	Arripis salar	Sea pike.
	Dinolestes muelleri	
2) Squamipinnes (2 species).		Sweep.
	Scorpis æquipinnis	Red mullet.
8) Mullidæ (2 species)	Hypeneichthys porosus	Spotted mullet.
A) Smoulder (Compolos)	Hypeneus signatus	Blackfish. Do.
4) Sparidæ (9 species)		
	Girella simplex	
	Girella cyanea	1
	Haplodactylus lophodon	
	Pagrus unicolor	Tarwhine.
	Chrysophrys sarba	Black bream.
	Chrysophrys australis	Drummer.
(n)	Pimelepterus meridionalis	
5) Cirrhitidæ (5 species)		Morwong.
	Chilodactylus morwong	Jackass-fish.
	Chilodactylus macropterus Chilodactylus fuscus	Carp.
	Latris ramsayi	Trumpeter.
6) Scorpænidæ (3 species)	Sebastes percoides	1. danposon.
o, 2001 post-200 (0 a post-20)	Scorpena cruenta	Red rock cod.
	Scorpæna cruenta	Do.
7) Teuthididæ (1 species)	Teuthis nebulosa	Black treevally.
8) Berycidæ (1 species)	Beryx affinis	Nannygai.
9) Scienidæ (2 species)	Sciæna neglecta Otolithus atelodus	Jew-fish. Teraglin.
0) Acanthuridæ (1 species).		
1) Carangidæ (7 species)	Caranx trachurus	Yellow tail.
	Caranx georgianus	White treevally.
	Seriola Ialandei	Kingfish.
	Seriola hippos	Samson fish.
	Temnoden saltator	Tailor (Bluefish of N. Y.)
	Trachynotus russellii	Dart-fish.
O\ Chattida (1 angoing)	Paeltus argenteus	Bat-fish.
2) Cyttidæ (1 species)	Zeus australis	
o bomorida (o species)	Pelamys australis	Bonito.
	Cybium commersonii	
	Cybium gultatum	Spotted mackerel,
	Elacate nigra	Kingfish of West Indies.
4) Trachinidæ (2 species)	Sillago maculata	The whiting.
W	Sillago ciliata	Trumpeter whiting.
5) Cottidæ (3 species)	Platycephalus fuscus	
	Trigla kumii	Red gurnard.
6) Sphyrænidæ (2 species)	Trigla polyommata	Flying gurnard. Pike.
o, spuyrasmaa (a species)	Sphyræna novæhollandiæ	
7) Atherinidæ (1 species)	Atherina lacunosa	Hardy head.
8) Mugilidae (4 species)	Mugil dobula	Sea mullet.
	Mugil peronii	Flat-tail mullet.
	Myxus elongatus	Tallygalane.
A	Agonostoma lacustris	Lake mullet.
9) Labridæ (5 species)	Cossyphus unimaculatus	
	Cossyphus gouldii	
	Coris lineolata	Rainbow-fish.
	Odax semifasciatus Olistherops brunneus	
0. Gadopsidæ (1 species)	Gadopsis marmoratus	
1) Gadidse (2 species)	Lotella limbata	Beardy.
_,	Pseudophycis barbatus	1
	1	

# Edible fishes of New South Wales, etc.—Continued.

Family.	Species.	Common name.
22) Pleuronectidæ (4 species).	Pseudorhombus multimaculatus	<del></del>
23) Siluridæ (3 species)	Ammotretis adspersus. Synaptura nigra. Copidoglanis tandanus Cnidoglanis megastoma	Sole. River catfish. Sea catfish.
24) Scopelidæ (2 species)	Arius thalassinus	Rauning.
25) Scombresocidæ (5 species.)	Aulopus purpurissatus. Belone ferox. Belone gavialoides. Hemirhamphus intermedius. Hemirhamphus regularis	Long tom. Do. Sea gar-fish. River gar-fish
26) Galaxiidæ (1 species) 27) Clupeidæ (5 species)	Arrhamphus scierolepis Galaxias coxii Chatoessus richardsonii. Clupea sagax Clupea sundaica. Clupea hypselosoma.	Mountain trout. Bony bream. Pilchered. Maray.
28) Murænidæ (4 species)	Clupea novæ-hollandiæ Anguilla reinhardtii Anguilla australis Murænesox cinereus	River eel. Do. Silver eel.
29) Sclerodermi (8 species)	Muræna afra Monocanthus hippocrepis Monocanthus chinensis Monocanthus ayrandi	Leather jacket. Do.

The following is a list of New South Wales edible fishes arranged in the order of their economic value:

Edible fishes of New South Wales, arranged according to their economic value, per species, by I. Douglas Ogilby, assistant zoologist of the Australian Museum at Sydney.

Species.	Common name.	Species.	Common name.
(1) Represented in market every day.		(2) Common in market—continued.	•
Gerres ovatus		Pseudorhombus multimacu-	Flounder.
Arripis salar	Salmon.*	latus.	Colo
Girella tricuspidata		Synaptura nigra	Sole.
Pagrus unicolor	Schnapper.	Belone ferox	Long tom.
Chrysophrys sarba	Tarwhine.	Belone gavialoides	Do. River eel.
Chrysophrys australis	Black bream.	Anguilla reinhardtii	River eei.
Sciæna neglecta		(9) Amequina imegularles	
Caranx trachurus		(8) Appearing irregularly,	
Caranx georgianus	White treevally.	often in large numbers.	
Seriola lalandei	Kingfish.‡	Diagter and addiates	Wirrah.
Temnoden saltator	Tailor.	Plectropoma ocellatum Priscanthus macracanthus	Red bull's eye.
Sillago maculata			Led built b cyc.
Sillago ciliata		Scatophagus multifasciatus.	Sweep.
Platycephalus fuscus	Flathead.	Scorpis æquipinnis	Red mullet.
Mugil dobula		Hypeneichthys porosus Pimelepterus meridionalis	Drummer.
Mugil peronii	Flat-tail mullet.	Scorpæna cruenta	Red rock cod.
Hemirhamphus intermedius.	Sea gar fish.	Scorpæna cardinalis	Do.
Hemirhamphus regularis		Teuthis nebulosa	Black treevally.
Anguilla australis	River eel.	Bervx affinis	Nannygai.
10) 0		Otolithus atelodus	Teraglin.
(2) Common in market.		Seriola hippos	Samson fish.
T - 4 1	Donah	Pseltus argentus.	Bat-fish.
Lates colonorum		Zeus australis	John dory.
Macquaria australasica		Scomber pneumatophora	
Ctenolates ambiguus		Trigla kumii	Red gurnard.
Oligorus macquariensis	Murray cod.§ Blackfish.	Sphyræna novæhollandiæ	Pike.
Girella simplex	<u> </u>	Cossyphus unimaculatus	Pigfish.
Chilodactylus fuscus		Coris lineolata	Rainbow-fish.
Sphyræna obtusata	Tallygalane.	Odax semifasciatus	
Myxus elongatus Pseudorhombus russellii		Lotella limbata	
Faculofholhous fusecim	T. louider	•	
# Only from its great numb	ers.	t Comes in large shoals at inter	rvais.

<sup>\*</sup>Only from its great numbers.

<sup>†</sup> Chiefly valuable as bait.

<sup>†</sup> Comes in large shoals at intervals. § First-class fresh-water never in Sydney market.

Edible fishes of New South Wales, etc.—Continued.

Species.	Common name.	Species.	Common name.
(8) Appearing irregularly, often in large numbers—Continued.		(5) Scarce in market—Continuued.	Chart billed as a
Saurus tumbil. Aulopus purpurissatus Clupea sagax Clupea sundaica Clupea hypselosoma Murænesox cinereus Muræna afra	Rauning. Sergeant baker. Pilchered. Maray. Do. Silver eel. Green eel.	Arrhamphus scierolepis  Monocanthus hippocrepis  Monocanthus chinensis  Monocanthus ayrandi  (6) Rare or accidental in market.	Short-billed gar- fish. Leather jacket. Do. Do.
(4) Common in market, but of little commercial value.  Therapon cuvieri	Trumpeter. Hardy head.	Caprodon schlegelii	Macleay perch. Pearl perch.
(5) Scarce in market.		Dinolestes muelleri Sebastes percoides Cybium commersonii	Sea pike.  Great striped mack-
Enoplosus armatus	Rock blackfish.	Cybium gultatum Elacate nigra	erel. Spotted mackerel.
Girella cyanea Haplodactylus lophordon Chironemus marmoratus	Bluefish. Butterfish.	Pseudophycis barbatus Arius thalassinus	
Chilodactylus morwong Chilodactylus macropterus	Morwong. Jackass-fish. Trumpeter.	(7) Fish which never appear in market.	
Prionerus microlepidotus Trachynotus russellii Pelamys australis	Dart-fish. Bonito.	Lutianus fulvifiamma Therapon richardsonii Therapon macleayanus	Silver bream.
Trigla polyommata Agonostoma lacustris Cossyphus gouldii Olistherops brunneus Ammotretis adspersus	Flying gurnard. Lake mullet. Blue groper. Herring cale. Long-snouted flounder.	Gadopsis marmoratus Copidoglanis tandanus Cnidoglanis megastoma Galaxias coxii Chateessus richardsonii Clupea novæhollandiæ	River catfish. Sea catfish. Mountain trout. Bony bream. River herring.

Amongst the edible fishes especial mention should be made of the Beryx affinis, the "nannygai" of the Sydney market. This fish is often 20 inches in length. It is not only a delicious food fish, but is interesting as being one of the oldest forms of "bony fishes" still

surviving.

The "schnapper" (Pagrus unicolor) is the most abundant and popular fish in the colony. The flavor is not quite as good as that of some others of the perch family, but it is unquestionably a superb table fish, wholesome and nutritious. It is found on all parts of the Australian coast, but is nowhere more abundant than in New South Wales. It is a deep-water fish and is usually found on or near the rocky points or reefs. The report of the fish commission says that its food is principally the mollusca, living on the rocks. The readiness with which it snaps up bait of the most varied description indicates its omniverous taste. Like most fishes, it has its periods of migration, and appears in schools. The time of the appearance of the school schnapper is in early summer. It is then believed to be about three years old, the previous stages of its existence being known as "red bream" at one year and "squire" at two years.

Another favorite fish is the "black rock-cod" (Serranus dæmeli). It is found on all the rocky parts of the coast, and in the harbors about bold headlands. It attains a great size, not unfrequently

weighing 50 pounds.

There are four species of the red rock-cod, four of flat heads, and three of flying gurnets, all of which are excellent table fish.

The "whiting" (Sillago maculata). There are four species of the whiting in Australia. The species known as the "sand whiting" (Sillago maculata) is one of the best of table fishes, and is very abundant in New South Wales. It is in more general use than the schnapper, and is in the best condition when it first comes in from the sea about the middle of summer. It is caught both with the hook and seine. The color of the "sand whiting" is a white olive marbled with large brown spots. There is a broad longitudinal band on each side of the body. The fins are transparent and the rays spotted with orange. This fish is said to command a higher price than any other in the market. The other species are not so valuable as food. The variety known as the "rock whiting (Odax semifasciatus) is soft and ill flavored, but if cooked when perfectly fresh it tastes fairly well. The "trumpeter" (Sillago ciliata) is not so good as the sand whiting. It comes in from the sea a month or two later than the The "trumpeter" (Latris ramsayi) is also highly prized as a table fish. It is nourishing and wholesome and of delicious flavor.

The "jew-fish" (Sciæna neglecta) is common in the Sydney market. It is sometimes five feet in length and is found at all seasons of the year, but is most abundant in the summer. This fish occasionally appears in the Melbourne market and is known there as the

kingfish, but it is said not to be abundant in Victoria.

The "Murray cod" (Oligorus macquariensis) is the largest freshwater fish in Australia and is found in the western rivers. It sometimes weighs as much as from 150 to 160 pounds. The name "Murray cod" is applied to two species, Oligorus macquariensis and Oligorus mitchelli. This fish is of a voracious character and devours every fish or animal that comes within reach of its enormous mouth. The spawning season is in midsummer. The largest fish of this kind are found in the Brisbane River. One described by Mr. Ramsay measured over 6 feet in length and weighed 160 pounds. It is known in Queensland by the name of "groper." The Murray cod belongs to the perch family, and has an oblong body covered with scales. The teeth are villiform. It has one long dorsal fin, eleven rays of which are spinous; the anal fin has three spines, and the tail is rounded.

The fresh-water fish of Australia, with the exception of the "Murray cod" and one or two species of the "cat-fish" found in the rivers west of the great dividing ranges, are very small and far from being abundant. The frequency of drought and the absence of any large rivers are the principal causes for this state of affairs. Beyond the Murray and its tributaries, the Darling, Murrumbidgee, Lachlin, and Macquarie Rivers, fish are seldom seen. The streams beyond this river system are so small as to be unworthy of the name of rivers, and are dried up during the greater part of the year. In the far western country, fish, on the authority of Mr. I. E. Tennison Woods, are unknown.

The "golden perch" (Ctenolates ambiguus) is common in the rivers and lagoons of the interior of New South Wales. It is a finely flavored fish, and sometimes weigh 6 or 7 pounds. When fresh its colors are very bright and beautiful. The body is green and golden and the head is a mixture of green, purple, red, and gold.

"Blackfish" (Girella tricuspidata) is frequently met in New South Wales and other portions of Australia. It is sometimes 16 or 18 inches in length.

The fresh-water "cat-fish" (Copidaglanis tandanus) are also abundant, but there is a great prejudice against them. These fish are, when fully grown, 2 feet in length, very fat, and have an eel-like flavor.

"Australian herring." Count Castleneau has described several species of Australian herring, but he says they are not abundant. The various species of Galaxiidæ that have been found are small

and scarce.

"Gar-fish." There are two species of gar-fish found on the coast of Australia. The most common species in New South Wales is the Hemirhamphus regularis. This fish comes in from the sea in the latter part of the summer to deposit its spawn. It is caught with the net and is found in large shoals or schools.

Several species of bony bream and apogon have been described,

but they are scarcely suitable for food.

#### ACCLIMATIZATION.

Very little has been done in the way of acclimatization of fish in New South Wales. The river trout (Salmo fario) has been successfully introduced into Victoria and Tasmania. This fish is occasionally seen in New South Wales near the Victorian border. The Crucian carp, several varieties of gold-fish, and a few perch from European rivers are about the only fishes that have been successfully acclimatized in the colony. The fish commission have strongly recommended the introduction of California salmon (Oncorhynchus quinnat) in Australian waters. It is said to be especially adapted to the mild latitudes of this climate.

## OYSTERS.

Three or four varieties of oysters are found in abundance in Australian waters. The "mud oyster" (O. angasi) is of such superb quality that it has been regarded as identical with that of European seas. The differences are that the valves are dentate at the margin

and the sculpture finer in the Australian variety.

The rock oyster (O. glomerata) is very abundant on all the coasts of Australia, especially in New South Wales. The flavor is very fine and is free from the coppery taste common to the rock oyster in tropical latitudes. There is another kind also abundant known as the "drift oyster." This variety is believed to be the same as the rock oyster under different conditions. It gets the name of "drift," because it is said that its beds are shifted by the influence of storms and tides. Its shell is oblong in shape and rather heavy. It narrows towards the umbones and widens at the vental margin. The royal commission in their report deplored the destruction of the natural oyster beds of the colony, and urged their legislature to take steps to remedy the evil. It was said that the process of exhaustion was going on even in the leased beds. The fisheries act of 1881 seems to have accomplished the purpose desired, by making it to the interest of those leasing oyster-beds to conserve, improve, and keep up the supply, instead of continuing the process of exhaustion. The act forbids oysters from being removed from the beds, until they have reached a certain size.

License has to be obtained for dredging, and holders of such license are required to pay for every three bushels of oysters obtained a royalty of not less than 1s. 6d. (36 cents). The license must be

taken out annually at a fee of £10 (\$48.66) or quarterly at a fee of £3 (\$14.60). The penalty for unlawful dredging for oysters is a fine not to exceed £20 (\$97.33) and not less than £5 (\$24.33), and the forfeiture of all oysters found in the offender's possession. Every dredger is required to produce his license on demand. The act also provides for the registration of holders of dredging licenses, and for the marking of dredging-boats.

There are few mollusks in New South Wales, except the oyster, of

any importance.

There is a mussel (Mytilus hirsutus) common in the harbors, and is eaten by some people, but is not sold in the market and has no commercial value.

# CRUSTACEA.

The crustacea are well represented in Australia. The sea-crab, cray-fish, and prawns are especially fine. Some of the cray-fish weigh 6 pounds, and when in season are filled with meat of the most delicious flavor. The cray-fish is usually caught with circular handnets. It is in the best condition during the summer.

The prawn (Penœus esculentus) is abundant in all the shallow bays and harbors. The fish commission reported that there was little or no danger of this delicious food becoming exhausted for some time to come. It recommended, however, that the same protection should

be extended to it as to all other young fish.

## IMPORTS OF FISH.

The bulk of tinned or canned fish imported into New South Wales comes from the Pacific coast of the United States, and consists principally of Columbia River salmon, but of the total imports of 4,413,440 pounds of all kinds of fish, including dried, preserved, smoked, salted, and tinned fish, about one-half is from the States.

During the year 1886, 2,083,593 pounds of salmon, valued at \$202,440, were imported, against 2,340,979 pounds, valued at \$247,980, for 1885.

The imports appear, however, to have declined since 1881, and in that year they showed an enormous increase over those of 1880, the figures being 2,381,690 pounds for 1881 and 1,209,033 pounds for 1880. Considerable quantities of dried and salt fish come from Great Britain. All the ling, kipper, whiting, herring, and anchovies are also from Great Britain, but oysters, sardines, mackerel, and cod-fish are from the United States. American sardines are now more popular than any other on account of their superior richness and flavor.

The lobsters imported are both from Great Britain and the United States, those from America being in especial favor. The American lobsters usually sell here from 7s. (\$1.70) to 8s. (\$1.94) per dozen 1-pound tins; cod-fish, salted, dry, and boned, from  $4\frac{1}{2}d$ . (9 cents) to 5d. (10 cents) per pound; sardines,  $\frac{1}{2}$  boxes, 7s. 6d. (\$1.82) per dozen;  $\frac{1}{2}$  boxes, 3s. 9d. (91 cents) to 4s. (97 cents) per dozen; oysters, from 5s. (\$1.21) to 6s. (\$1.46) per dozen 1-pound tins.

The duty of 1d. (2 cents) per pound on imported fish operates seriously against the trade, especially from the United States. When the cost of salmon in America is taken into consideration, it will be seen that 1d. (2 cents) per pound is equal to about 20 to 25 per cent. ad valorem—a very heavy duty, which, together with the profit of

dealers, renders the article rather expensive.

This kind of fish is well adapted to the climate and all authorities agree that it is quite equal to the best English salmon.

Quantity and value of fish, principally salmon, imported from the United States into New South Wales for each year from 1877 to 1886, inclusive.

Year.	Quantity.	Value.	Year.	Quantity.	Value.
1877	Pounds. 1,746,787 1,864,182 1,029,291 1,209,088 2,881,690	\$816, 485 276, 058 108, 010 161, 740 828, 555	1882	Pounds. 2, 815, 715 2, 524, 115 8, 838, 225 2, 840, 979 2, 088, 598	\$817,775 851,580 402,495 247,980 202,440

Quantity and value of all kinds of dried, preserved, and tinned fish imported from all countries into New South Wales for each year from 1877 to 1886, inclusive.

Year.	Quantity.	Value.	Year.	Quantity.	Value.
1877	Pounds. 4, 907, 894 4, 068, 890 8, 427, 696 2, 145, 508 4, 248, 765	\$809, 850 666, 670 464, 960 855, 850 719, 870	1889	Pounds. 4, 921, 696 6, 088, 168 6, 253, 642 4, 692, 580 4, 418, 441	\$785, 795 908, 300 922, 210 589, 545 514, 955

Quantity and value of fish imported into New South Wales during the years 1885 and 1886, together with the names of the countries whence imported.

	1885.		1886.	
Countries.	Quantity.	Value.	Quantity.	Value.
	Pounds.		Pounds.	
Great Britain	1,945,598	\$284, 200	1, 959, 484	\$254,930
Victoria	208, 825	29, 415	167, 199	28, 485
South Australia	70,519	2,070	70,178	18, 185
Queensland	8,820	700	10,411	1,200
Tasmania		85	54	25
New Zealand	26, 426	8, 160	81,245	8, 160
India	18	5	1,685	820
Hong-Kong	72,860	16, 840	70,709	13, 985
China	1,662	450	7,765	1, 140
United States	2,840,979	<b>247,</b> 980	2,088,598	202, 440
South Sea Islands		40		
New Caledonia		130	108	10
France		4, 605	9,809	1,790
<b>B</b> elgium	2,800	850		
Germany	. 181	15	817	190
Norway	. 289	<b>5</b> 0	489	148

## EXPORT OF FISH.

The total export of fish from New South Wales during the year 1886 was 1,135,073 pounds, valued at \$143,475, but of this amount only 8,242 pounds, valued at \$595, consisted of the produce of the colony. The remainder consisted of foreign produce, principally American salmon sent here for transshipment.

Quantity and value of the fish produce of the colony exported for each year from 1877 to 1886, inclusive.

Year.	Quantity.	Value.	Year.	Quantity.	Value.
1877 1878 1879 1890 1881	Pounds. 40, 691 90, 249 47, 222 89, 644 85, 929	\$2,885 1,915 2,565 4,420 6,905	1882 1888 1884 1885	Pounds. 9, 114 46, 854 80, 807 8, 229 8, 242	\$560 2, 835 1, 845 535 595

It will be seen from the preceding table that the export has steadily declined since 1877, and during that year it amounted to 40,691 pounds, valued at \$2,835, and that in 1886 it declined to 8,242 pounds, valued at \$595. This produce was sent to the neighboring colonies, Victoria receiving the largest share.

Quantity and value exported to each colony during the years 1885 and 1886.

	1885.		1886.	
Countries.	Quantity.	Value.	Quantity.	Value.
Victoria. New Zealand Queensland Fiji Islands.	Pounds. 568 5,857 1,296 1,008	\$35 885 95 70	Pounds. 5,008 2,848 891	<b>\$</b> 340 170 85

The export of foreign fish produce has also declined since 1877, but this is due principally to the fact that no inconsiderable portion is sent direct to Victoria and other colonies instead of to New South Wales for transshipment as formerly.

Quantity and value of the export of foreign fish produce from New South Wales, principally California salmon, from 1877 to 1886, inclusive.

Year.	Quantity.	Value.	Value. Year.		Value.
1877	Pounds. 983, 987 582, 905 1, 197, 674 858, 072 1, 054, 494	\$174, 990 99, 680 163, 810 128, 995 166, 815	1882 1883 1884 1885 1886	Pounds. 849, 622 1, 196, 781 1, 333, 732 1, 338, 498 1, 126, 881	\$129, 675 179, 920 188, 175 161, 620 142, 880

It will be seen from the preceding table that the exports for 1886 declined to the extent of 211,162 pounds in quantity and \$18,740 since 1885. There was no falling off, however, in the export of this produce to Victoria, but, on the contrary, there was a decided increase; the quantity exported to Victoria during 1886 being 577,155 pounds, valued at \$66,940, against 453,917 pounds, valued at \$49,650, for 1885. The exports to Tasmania and Western Australia also showed an increase. The decline consisted principally in the exports to Queensland, that colony receiving during the year 1886 258,875 pounds, valued at \$35,955, against 538,499 pounds, valued at \$68,155, in 1885.

United States Consulate, Sydney, September 6, 1887. G. W. GRIFFIN, Consul.

# AUSTRALASIAN WOOL CLIP FOR 1886-'87

REPORT OF CONSUL GRIFFIN.

One of the most remarkable features in connection with the Australasian wool clip for 1886-'87 is the decided improvement in the quality of the fleece over that of the previous season. This fact is mainly due to the improved condition of the natural grasses through

the copious rains in almost every part of Australasia. The evil effects of the drought, which seem to have extended over a period of three or four years, almost wholly disappeared except in a few places. The wools of the Riverina district are said to have recovered their former superiority. In some districts the felting power of the present

clip has never been surpassed.

The Victorian wools sold in London during the months of November and December attracted no small amount of attention on account of their superb quality and luster. The New Zealand wools, which arrived a few weeks later, were remarkable for their fineness and great length of staple. A marked improvement was noticed in the condition of the clip from every one of the colonies. Mr. F. H. Bowman, F. R. S., a wool expert, who examined the samples sent to the Colonial and Indian Exhibition, expressed the opinion that no previous collection of Australasian wools ever equaled it. He complimented especially the samples of Messrs. R. Goldsbrough & Sons, many of which he said presented the highest state of perfection to which wools are capable of being grown.

He described the New South Wales wools as being better suited for the fine clothing trade, but possessing less luster than those from

Victoria.

# EXPORT OF WOOL.

The total number of bales exported from all the colonies during the year ended the 31st of May last was 1,161,574, against 1,112,172 for the corresponding period of the previous year.

The subjoined table shows the number of bales shipped from all the colonies up to the 1st of June, 1887, compared with the same date

for 1886:

Countries.	1887.	1896.	Increase and decrease.	1885.
New South Wales Victoria Queensland South Australia Western Australia Tasmania New Zealand	827, 981 68, 081 147, 554 16, 373	Bales. 340,090 309,866 70,801 129,905. 14,343 16,281 281,886	Bales. —11,649 +18,565 — 7,720 +17,649 + 2,080 + 2,840 +28,187	Bales. 287, 615 328, 290 70, 260 151, 297 13, 222 17, 268 218, 168
Total	1, 161, 574	1, 112, 172	+49, 462	1,066,115

It will be seen from the preceding table that New South Wales heads the list in the export with 328,441 bales, and that Victoria comes close on to it with 327,931 bales. The exports, however, from Victoria show an increase of 18,565 over those of 1886, whilst the New South Wales exports show a decline during the same period of 11,649. The cause of the decline in the New South Wales shipments was not occasioned by the falling off in the quantity produced, but was due to the navigable condition of the rivers, which enabled the growers to send their wool direct to Melbourne, which, in seasons of drought, finds its way by rail to this market for export.

New Zealand increased her exports from 231,386 bales in 1886 to

259,573 bales in 1887.

While the exports of New Zealand are not as heavy as those of Victoria, nevertheless she is the second wool-producing colony in Australasia; New South Wales, of course, taking the first rank. The total annual value of the wool product of Australasia is estimated at \$132,667,145, as follows:

New South Wales	\$44, 477, 768
New Zealand	
Victoria	
Queensland	9, 447, 520
South Australia	
Tasmania	
West Australia	1, 246, 275

I learn from a valuable table of statistics, prepared by Mr. W.Pulsford, secretary of the Free Trade Association at Sydney, that the wool exports of the Australasian colonies to the United Kingdom during the first four months of the present year amounted to 217,112,197 pounds, against 213,127,593 pounds of the corresponding period of 1886, showing an increase in quantity for the present year of 3,984,604 pounds. Mr. Pulsford, however, states that the increase in quantity was far surpassed by the increase in value. He gives the value of the shipments of Australasian wools to the United Kingdom during the first four months of 1887 at \$48,464,730, while that of the same period in 1886 was only \$41,358,900. The shipments for the month of April alone amounted to \$18,959,040, against \$4,430,150 for the same month last year.

The consignments of New South Wales from the Mudgee district are stated, on the authority of the New Zealand Loan and Mercantile Company Limited, to have been splendidly bred. The same authority states that the well-known Havilah brand brought 12½d. (2½ cents) in the grease, the highest price of the season. The New England and Upper Hunter clips were this year conspicuous for elasticity, fineness, and clearness of staple.

The demand for steamer freights to London has been throughout the season unprecedented, and such as to give rise to some apprehension concerning the future utilization of sailing vessels for the wool trade. Sailing vessels labor under great disadvantages, owing to the times of the sales in London being so fixed that no sooner have steamers completed their loading for one series than shippers find it is then too late to think of catching the next series by sailing vessels, and they consequently have recourse to steamers.

#### EXPORT TO THE UNITED STATES.

The direct wool export to the United States has been very small. The absence of the usual number of American buyers was noticed at all the colonial sales, especially at Sydney and Adelaide. The few that were present showed no disposition to bid against the French and German buyers for the kinds of wool desired for the American market. Indeed, the only effect of the presence of Americans at all was perhaps to excite the competition between the continental buyers, which was throughout sharp and keen and formed the mainstay of the market. The only direct shipments to America consisted of 14,000 bales from Melbourne and 169 bales from Sydney. The following table shows the quantity of Australasian wool exported di-

rect to the United States during the last four years, the only ports of shipment being Melbourne and Sydney:

Years.	Melbourne.	Sydney.
1888-'84 1884-'85 1885-'86 1896-'87	Bales. 14,868 6,621 20,161 14,969	Bales. 7,712 4,296 169

It was noticed both at the London and colonial sales that, notwith-standing the advance in the prices of wool, the advance was confined principally to crossbreds, medium, and lower sorts. Mediums, particularly at the Sydney sales, were relatively the strongest. The light conditioned wools at the January and February sales brought even lower prices than those of last year. Up to the 14th of February only 1,000 bales were purchased at the London sales for the American market. The reason given for this was that considerable quantities of Australasian wool, purchased last season, were still held over in New York and Boston.

A change for the better occurred in March and April. The advance was particularly marked in extra merinos. The Australasian Loan and Finance Company received a cablegram on the 23d of June last to the effect that the American demand was increasing and that prices were rather higher than at the last sales. Messrs. Dalgety & Co. also received cablegrams to the same effect.

#### EXPORT TO GERMANY AND FRANCE.

There has been a decided improvement in the direct trade between Australasia and the Continent. The recent establishment of two splendid lines of steamers, under heavy subsidies of the French and German Governments, it is thought will do much towards stimulating this trade. The French line, the "Messageries Maritimes," notwithstanding the steady demand for steamer freight, seldom charged more than  $\frac{2}{3}d$ . ( $\frac{2}{3}$  cent) and  $\frac{1}{2}d$ . (1 cent) per pound. The highest rates reached per steamers during the season were  $1\frac{1}{8}d$ . (2\frac{1}{4} cents) per pound. These, however, were exceptional. The German line (the Norddeutscher Lloyd) received freight at fully as low rates as those of the French line. The direct shipments to Marseilles during the season 1886-'87 were 4,731 bales, against 3,323 bales for 1885-'86. Those to the German ports showed a much greater increase, the figures being 40,968 bales for 1886-'87 and 15,888 bales for 1885-'86. These figures, however, only represent the direct shipments, as considerable quantities of Australasian wools reached the continental countries by way of Liverpool and London.

The subjoined table shows the quantity of wool shipped from Australasia direct to each of the continental ports for the last three years:

Countries.	1884–'85.	1885-186.	1886–187.
Intwerp	Bales. 89,526	Bales. 15,888	Bales. 36,247 2,268
Ouhkirk farseilles Fremen	6, 149	2, 589 8, 828	2, 26 2, 10 4, 78 2, 45
Total	45,675	21,750	47,800

### PRICES OF WOOL.

The extraordinary decline in the price of wool last season was attributed to the general depression of trade in the leading articles of consumption all over the world. Such a depression had not been known for a period of fifteen years. As compared with the opening of the previous season the decline in the price of wool was startling. Greasy brought fully  $3\frac{1}{2}d$ . (7 cents) and washed 4d. (8 cents) per pound less than in 1886. Between the close of the second and the opening of the third series of London sales the reaction set in, and large private transactions took place in London at prices showing an advance of 1d. (2 cents) per pound on March rates. The June sales opened with an advance of  $2\sqrt{d}$ . (5 cents) on greasy merinos and 4d. (8 cents) per pound on second, and the sales closed very firm, greasy merino being 30 per cent. and crossbreds 15 per cent. and second 25 per cent. higher than in April. All through the next interval purchases by private contract were being made, and Greville's Australasian Year Book for 1887 states that the September sales opened with an excitement without parallel in the history of the London colonial wool sales, greasy being  $1\frac{1}{2}d$ . (3 cents) to 2d. (4 cents) and second  $2\frac{1}{2}d$ . (5 cents) to 4d. (8 cents) per pound higher than the closing rates of the previous series. Prices, however, were somewhat irregular, and towards the close a slight relapse took place, but there is no doubt that at the highest point of this series the Australasian staple was 50 to 60 per cent. dearer than at the lowest point in April, some five months before. In fact, several large clips of faulty New South Wales wool sold at double the money similar clips brought in the second series when wool was at its lowest.

Crossbreds of the finer quality have fluctuated throughout the season in sympathy with the various changes in the value of merinos. Coarse qualities and Lincoln, on the other hand, have sold steadily at prices showing little variation on those current during the sales of the preceding season.

I am indebted to the manager of the New Zealand Loan and Mercantile Agency Company, limited, of this city for the following table, showing the fluctuation in the prices of these wools:

Fluctuation in the prices at the Sydney and Melbourne sales of Lincoln, halfbreds, and fine crossbred wools for each season from 1882-'83 to 1886-'87, inclusive.

	Lincoln.		oln. Half bred.		Fine crossbred.	
Years.	Prices.	Equivalent in United States money.	Prices.	Equivalent in United States money.	Prices.	Equivalent in United States money.
1882–'83 1883–'84 1884-'85 1885–'86 1886–'87	d. 6 to 8 6 8 5 8 6 8 7 8 1	Cents. 12 to 16 12 16 10 16 12 16 12 16 14 17	d. 8 to 104 8 10 8 104 8 10 8 10	Cents. 16 to 21 16 20 18 21 16 20 17 21	d. 11 to 181 101 18 11 181 101 12 101 12	Cents. 22 to 37 21 28 21 27 21 24 21 24

#### NUMBER OF SHEEP IN AUSTRALASIA.

The total number of sheep in the whole of Australasia for the present year will, perhaps, exceed 82,000,000, against 76,212,000 for 1886, the principal increase being New South Wales, Queensland, and South

Australia, where the rains have been both frequent and abundant. The number in Victoria will probably be less than last year, when it was 10,681,037. In 1875 the number was 11,323,080, considerably more than in 1886. Mr. Alexander Bruce, the chief inspector of stock for New South Wales, estimates the number of sheep in New South Wales for 1887 at 39,169,304, against 37,820,906 for 1886. Of the number for 1887 Mr. Bruce estimates the merino combing sheep in this colony at 27,915,847; clothing, 10,151,627—total merino, 38,067,474; Lincolns, 221,964; Leicester, 119,590; Downs, 26,444; Romney Marsh, 10,185. Total long wooled, 378,383; crossbreds of all breeds, 722,447. These last are principally long wooled with merino. Total number of sheep in New South Wales for the present year, 39,169,304. The estimated number for Queensland is 9,867,312, against 8,994,322 for 1886, and 6,272,766 for 1875. The number for New Zealand for 1887 is estimated at 17,680,000, against 16,677,445 for 1886, and 11,704,853 for The number in South Australia will show a slight increase. the figures for 1886 being 6,696,406. Tasmania has less sheep than she had half a century ago, the number being about 1,800,000, but Tasmania pays more attention to the quality than the quantity of wool she is enabled to produce. Her flocks of pure-blooded sheep are amongst the finest in the world. She forwarded to the Sydney sales, which began here on the 5th instant, 2,000 blooded rams, some of which brought as much as \$2,362 per head. The bulk of the stud sheep introduced into New South Wales are from Tasmania. Of the total number (1,653) imported into New South Wales during 1886, Tasmania furnished 1,536; South Australia, 54; Queensland, 32; California, 35. These sheep were quarantined for eighteen days and received one dipping with tobacco and sulphur. The laws of all the Australasian colonies prohibit the importation of sheep and cattle except under the quarantine regulations, and on account of these restrictions the importation of blooded sheep from America has seldom proved profitable to the shippers.

Of the total number of stud sheep brought into New South Wales last year 953 were unshorn and 639 were shorn. After reaching the station these were all examined by the inspectors who were instructed

to report on their appearance and the effect of the dipping.

Of the unshorn, I ewe died, 35 sheep were injured, and 2 lambs were dead when dropped. Of the shorn sheep, I ram died and several were reported injured by the dipping. The inspector thinks that no loss or injury would occur if the sheep were thoroughly dried before removing them. A conference was recently held here for the purpose of considering the propriety of removing the quarantine, and it is thought that some arrangements will shortly be made by the various colonial governments which will allow sheep and cattle arriving here from non-infected ports to be landed upon inspection. Much interest in the subject was taken by the delegates from Tasmania.

The mild and genial climate, together with the unparalleled richness of the natural grasses, have enabled that country to reach such a high degree of perfection in the production of blooded animals. The summers are never excessively hot, and the winters are never cold enough, even on the high table-lands, to put a stop to the operations of the agriculturist.

Western Australia, with a territory larger than that of any of the other colonies, carries very few sheep, the number for the present

year being estimated at 1,753,000.

There are very few districts in Australia where sheep will not thrive, except in the tropics and some parts of Western Australia. In fact, throughout the whole of the group the climate is so mild that neither sheep nor cattle require any housing, and can run out all the year round. It is only natural under the circumstances that sheep farming should receive so much attention. Mr. Bowman, the expert to whom I have referred in a former part of this report, says, however, that the wool-growers of Australia cannot keep up their reputation for high-class wools without continuing the introduction of blooded animals from other colonies. He says that—

Certain classes of sheep are more adapted to certain regions of the earth's surface than others, and that in many cases the environments of sheep tend, in the course of generations under special management, to produce a special character, which becomes permanent and may be retained as a pure breed.

He therefore contends that certain characteristics of wool, such as luster in the long-wool breeds, can only be retained permanently by the reintroduction of fresh blood from time to time, and especially in those countries near the equator. He says, further, that a certain degree of temperature and moisture is necessary for its permanency. This luster, he thinks, is retained longer in New Zealand and on the southern coast of Australia than anywhere else. He attributes the deterioration of Australasian sheep in South Africa to the herbage of that country, which is not fitted for the growth of the better class of sheep.

#### SHEEP-SHEARING BY MACHINERY.

The exorbitant wages demanded by sheep-shearers in Australasia, together with the repeated strikes amongst them and the difficulty of supplying their places, have led to various attempts in Sydney and Melbourne to invent a process for shearing sheep by machinery. Such an invention was for a long time believed to Two difficulties at once presented themselves. be impossible. The first was the employment of some means to control the animal while being shorn, and the second was the construction of the apparatus for shearing it. These difficulties, it is believed, have been wholly overcome by Mr. Frederick York Woolseley, a well-known sheep-grower of this colony. Mr. Woolseley about ten years ago conceived the idea of constructing such a machine, and it grew in his fertile brain until it culminated in the invention which has been so successfully employed at various intervals during the last two or three months at some of the principal wool warehouses in Sydney and Melbourne.

The first public trial of the machine took place in Melbourne, and there were present at the trial a considerable number of sheep farmers and wool brokers from every colony in the Australasian group. All united in the opinion that the machine did the work which its

inventor claimed for it in the most satisfactory manner.

The apparatus is a very simple one, being made on the same principle as the cutter of a mower or reaper, and the knives are worked by means of rods within the handles, which in their turn are moved by a core within a long flexible tube, which is kept in a rotary shaft, and wheels driven by a stationary engine. The comb is in the form of a segment of a circle, about three inches in diameter, with eleven conical shaped teeth. Each machine is worked by a shearer, and as he forces the comb along the skin of the animal the fleece is cut. One of the principal advantages of the machine is that it does not

require a highly skilled person to work it. Any ordinary hand on

a farm could be taught to use it in a couple of days.

Mr. Bruce, chief inspector of stock, is of the opinion that the machine will soon come into general use. He thinks it admirably adapted to small farms. There has been recently more or less discussion in the various agricultural journals of the colony as to the economy of its use. While all agree that it is a labor-saving machine, it is said that the work can be done quicker by the ordinary process of shearing. The advocates of the machine claim that it effects a saving of fully 10 per cent. The first cost of the machine and the cost of the motive power are more than counterbalanced by the efficiency of the work done by it. For instance, it takes off the whole of the wool at one cut and leaves the sheep skin absolutely intact. It is also claimed that little or no injury is done to the sheep, whereas, by the old method, the animals are not unfrequently fatally injured. Indeed, in many cases, especially when the operation is conducted by unskilled workmen, the floor of the sheep-shed presents the appearance of that of a slaughter-house. It is well enough to remark here that the machine can be run either with a steam or gas engine, or by ordinary horse-power, and that the apparatus does not easily get out of order. All the parts are interchangeable, and in the event of one getting out of order it can be replaced without trouble by another of exactly the same size. Moreover, the cutter which reciprocates over the comb is inexpensive and will shear without sharpening for a long period.

A number of sheep-shearing sheds are being erected in various parts of this colony, especially in the Mudgee district, and on some future occasion I hope to be able to give the results of their operations. Those that I have witnessed at the warehouses of the New Zealand Loan and Mercantile Agency Company certainly did not perform the work quite as speedily as that of the ordinary shearer, but there can be no question as to the superiority of the work done by the machine. The number of sheep sheared at the first trial was at the rate of 50 or 60 a day of ten hours, whereas 80 or 90 is a fair tally of a good hand with a pair of shears, while some of them have gone as high as 150 per day; but, on the other hand, it is claimed that on every sheep shorn by the machine there is a saving, from 4 to 12

ounces of wool.

It has been objected to the machine that it cuts the wool too close to the sheep's back, as those shorn present a uniform pink color from the beginning of the nose to the end of the tail. If desired, however, the machine can leave from one-eighth to one-tenth of an inch of wool by simply changing its adjustment. In no instance has there been any double cutting, every fiber of the fleece being of its full natural length, nor are there any ribs left on the skin or any tufts of uncut wool.

### UNITED STATES DUTIES ON WOOL.

The American trade with Australasia is insignificant where compared with that enjoyed by Great Britain. This unfortunate state of affairs is believed here to be principally due to the high protective tariff of the United States, which excludes wool, the chief product of Australasia, from the American market. The people of the colonies have always evinced a strong desire to trade with us, and there is abundant evidence to show that the average Australasian has a decided preference for articles of American manufacture over those

of other countries, but he does not think it right to purchase goods and wares from a country which imposes such heavy penalties upon

his own raw products.

The bill introduced into the United States Congress last year providing for the removal of the wool duties attracted no little attention here, and it was fondly hoped that it would ultimately become a law. Indeed, it is said that the sole cause of the failure of the measure was the proposition to admit woolens as well as the raw material free of duty, and that of course secured the opposition of the manufacturers, who were only interested in the admission of raw products. It has been frequently pointed out here that the wool farmers of America get better prices for their wool for a term of years when the duties were lowest, for the reason that manufacturers need many kinds of wool to work up their cloths to an advantage. It is also said that whenever there is a demand in the United States for foreign wools there is also a demand for home-grown wools. The people argue that the United States is the only country in the world which levies a duty upon raw products, and that if the Americans wish to protect their manufactures they should do so by removing the restrictions from the raw materials.

It is further said that the woolen industry of the United States, both on the Atlantic and Pacific coasts, is allowed to languish for the want of cheap wools, which the manufacturers could easily obtain if it were not for the unjust tariff, and that the reason the French and Germans make such superb woolens is because they have access

to the Australasian and other foreign wools.

The mill-owners of California have repeatedly stated that the reason they can not make the woolen industry pay on the Pacific slope is because they can not obtain Australasian long-stapled wools to

mix with their own shorter growth.

In California the wools are of two growths; one growth is from April to September, and the other from September to April. In Australasia there is but one growth, say of nine or twelve months. Of course manufacturers have an advantage who use the long-stapled wools, for cloths made with them have a smoother and brighter finish, without rough points sticking out, as in goods made of short-stapled wools. With Australasian wools it is contended that California would soon be enabled to produce cloths of better quality

than the French or German and at lower prices.

Col. W. Harney, who is largely interested in the woolen industry of San Francisco, says that if it were not for the tariff the Californian woolens would be preferred to all others. In an interview with me in December last he stated that he had ordered several lots of New South Wales wools, which he used to advantage in the manufacture of blankets and other articles. Some of these articles found their way to Sydney, along with some other American importations of the New Zealand Loan and Mercantile Agency Company of this city, and attracted no little attention. Indeed, they were very generally admitted to be superior to anything of the kind ever brought here, the price alone preventing extensive orders for them. Colonel Harney, in his evidence before the Central and South American Commission, which met in San Francisco about two years ago, said:

In California we are prepared to suit every taste if we can get the trade, or the taste of any other nation or people; that is, we can manufacture anything in the shape of woolen goods that are made by any French or English establishment, and do it successfully

Colonel Harney's views were strongly corroborated by Mr. Donald McLennan and other gentlemen who gave evidence before the commission. Mr. McLennan said:

If we could use the wools of Australasia in connection with our own, it would not only enhance the value of Californian wools, but we could manufacture just as much and so many more yards of goods than we can now; that the extra consumption of those wools would enhance the value of domestic wools: that is, give a larger market to domestic wools to combine with foreign wools.

Mr. Mitchell, the secretary of the Sydney Chamber of Commerce, recently commended highly the views of Colonel Harney and Mr. McLennan, and it is no wonder that such opinions should attract attention in the chief metropolitan city of Australasia, a city offering so many advantages for a direct trade with the Pacific coast of the United States. The fact that the Australasian wool trade with Germany and France is increasing, whilst that with the United States is deteriorating, should be a note of warning to the Americans. If Congress will not remove the duties on wool, it certainly ought to modify the duties on the kinds of wool which cannot be produced in the United States, such as the soft, fine-haired wools of Victoria and New South Wales.

These wools are remarkable not only for their softness and smoothness, but for their elasticity and brilliancy.

G. W. GRIFFIN, Consul.

United States Consulate, Sydney, July 13, 1887.

# ARGENTINE WOOL CLIP OF 1886-'87.

#### REPORT OF CONSUL BAKER.

The Buenos Ayres wool season of 1886-'87 is now just closing, and, though no official returns have yet been published, we are enabled from accounts of shipments to know very nearly how it compares with that of other years. The comparison, though not unexpected, is anything but favorable. The following table shows the exports from this port for the last three seasons from October 1 to June 31, and the different points to which the shipments were made, to wit:

Destination.	1884–'85.	1885–186.	1886–'87.
Havre Bordeaux Marseilles Cette Dunkirk	Bales. 30, 307 2, 572 154 11 119, 292	Bales. 19,019 2,448 948 64 126,888	Bales. 18, 181 2, 108 55 884 28, 181
Total France Belgium England Italy Germany United States Other places	152, 836 84, 862 8, 888 5, 555 57, 821 4, 686 1, 604	148, 167 75, 866 6, 468 8, 590 42, 883 1, 464 798	118, 804 78, 822 2, 829 4, 096 46, 806 46
Total export.	815, 147	284, 186	241,51

It will be seen from these figures that the clip of the closing season, so far as heard from, is 42,668 bales less than that of 1885-'86 and 73,629 less than that of 1884-'85. In other words, it is about 24,000,000 pounds less than in 1885-'86 and 45,000,000 pounds less than in 1884-'85, though there are still some small lots to go forward. The amount, however, will not materially change the figures. In my report of the wool exports of Buenos Ayres, of the date of August 4, 1886, published in No. 70 of Consular Reports, I estimated that the deficit of this season, compared with that of 1884-'85, would "be upwards of 75,000 bales, or 45,000,000 pounds." The above table shows how nearly correct my estimate was.

The cause of this falling off in the wool clip of this country, as explained in my former report, was the immense losses of sheep and lambs during the winter of 1886, when not only newly dropped lambs, but a large number of sheep, estimated at 12,000,000, perished from the cold weather and unprecedented storms, foot-rot and scab assist-

ing greatly to swell the destruction.

#### OUR TARIFF DISCRIMINATING AGAINST THIS COUNTRY.

You will observe from the above table that the amount of fine wools shipped from this country to the United States is annually becoming less. The cause of this is in great part because our tariff unintentionally, but very unjustly, discriminates against such wools from the Argentine Republic in favor of those from Australia, New Zealand, etc.; our system of computing the duties making no allowance whatever for the fact that the dirt and grease in the wools of the Argentine Republic is fully 70 per cent. greater than those of the former countries; this excess of dirt and grease being required to pay the full tariff rates for wool. I fully discussed this matter in my last annual report. The only wools from this country which it is now possible to ship under our tariff are the "Criolla" or long carpet wools of the province of Cordoba, which are shipped from Rosario, and which amount to about 10,000,000 pounds annually.

#### PRESENT RULING PRICES.

The prices of wools in this port during the last season have generally been such as to give the sheep farmers a quick market for their clips, the purchasers for the most part being experts or "artists," who come here annually from the importing houses they represent on the continent of Europe. What further favored the home market was the premium on gold, the prices in the depreciated paper money of the country fluctuating with the premium. The present ruling prices in this market are as follows:

	Let to knokishins.
Extra fine clothing wools:	
In best condition	. \$4.50 to 5.25
Good condition	4.00 to 4.50
Inferior condition	2.50 to 3.75
Belly wools	1.50 to 2.50
Extra Rios wools	8.40 to 4.00
Criolla or carpet wool	8.00 to 8.90

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#### PROSPECTS OF THE NEXT SEASON.

In regard to the prospects of the next season, it is yet difficult to form any satisfactory opinion. Thus far the winter has been mod-

erate, with but little rain. Owing to the latter cause the sheep-runs or "camps" are unusually bare, the pasturage being quite exhausted from the failure of the grass. Thus the sheep are in many places reduced to mere skin and bones; and if there should now be a succession of cold storms, the losses, which are already not inconsiderable, would be most serious. Thus if the flocks manage to get through the winter, there will probably be no deficit next season compared with the present figures; but, if in the present unpromising condition of the flocks, there should be severe weather, we may expect another short clip.

E. L. BAKER, Consul.

United States Consulate, Buenos Ayres, July 28, 1887.

# THE ECONOMIC CONDITIONS OF IRELAND.

### REPORT OF CONSUL SCHOENHOF.

My first object and aim in visiting Ireland was to look up the various industries which were mentioned to me, and of which I had seen samples in the Irish department of the Manchester exhibition: First, linen manufacture; second, woolen and tweeds; third, hosiery; fourth, Irish lace; fifth, poplin; sixth, wood-carving; seventh, pottery.

From the tempting display at the exhibition I was led to believe that I should see very thriving industries. With the exception of the linen manufacture and other known manufacturing branches of Belfast and connecting industries in Ulster, I was, however, doomed

to disappointment.

It is useless for me to dwell much on the linen industry of Ulster. It is well known that in Ulster they are foremost in this branch in the whole world. Still I find that the earnings of the people employed in the linen mills in Ulster are far below those of any class employed in the textile branches in England. Mill regulations and working time of course are the same for the whole Kingdom. Flax-breakers, men who have to do very exhausting work, earn from 15s. to 20s. per week; hacklers, from 18s. to 23s.; spinners and girls, from 8s. to 10s.; half-timers, boys 5s. and girls 4s.; and weavers, mostly women tending 2 looms, from 12s. to 15s. By others I was told that the earnings were only, for weavers, 8s. to 10s. and up to 15s. only for the finer goods. Damask weavers, for instance, earn a few more shillings per week. It must, however, be said in this connection that the linen trade suffers from depression. This is partly due to the fact that not so much linen is used, owing to the great cheapening in cotton manufacturing, as was the case in former times, and partly also because the use of brown linen for ladies' dress has ceased through change of fashion, but principally through the great reaction following the immense expansions in the wake of the American war and the cotton famine consequent thereto.

On the whole Belfast did not impress me as being much different from other Irish towns. It looked poor and unsightly, and especially the workingmen's quarters, which could not at all be compared to the comfortable appearance which the quarters occupied by the working classes of any English manufacturing town present to the visitor

at the first glance.

Weaving fine linen is still done by hand-loom weavers and gives remunerative employment to the inhabitants of the surrounding country districts. All linen above No. 1700 and the finer damask and table linen is done on hand-looms. The thread is too fine and brittle and would break if exposed to the greater strain of the power-loom. The earnings of these hand-weavers is considerably above the average given above for power-weaving. The reason for this is, that the younger generation does not take kindly to this occupation, and there is consequently no oversupply of weavers in this branch of the trade, and skilled weavers able to weave fine linen are, therefore, in very good demand.

### THE WOOLEN MILLS OF IRELAND.

These mills are occupied mostly in the manufacture of Irish tweed. They make a very good article, which ought to find ready sale in the United States. Lately a more systematic effort has been made to open connections in the States by sending out travelers, and one agent has lately returned placing some very large orders. Some mills, and especially one which I visited near Cork, are as well-organized mills, and work as advantageously, as can be found anywhere. This mill had a fire some years ago which burnt down the old appliances, and the proprietors have built up since with the best improvements. With the cheap labor they command they ought to be able to undersell any competitors, but while well occupied it cannot be said that they are very formidable opponents to competitors in England or Scotland.

The wages I have noted down are: For men, from 12s. to 14s., 14s. being about the limit of the best men; spinner girls, 8s. to 10s.; children, 5s. to 6s., and weavers earn from 10s. to 12s. The mill, employing about 750 hands, pays out about £400 per week in wages. This includes overseers, etc., which is a trifle over 10s. per head. A weaver on an average turns out about 144 yards in a fortnight, I am told, of the better tweeds, and about 180 yards of the cheaper ones, single width, as all Irish tweed-weaving is counted, although two widths of the 27-inch, or 54-inch single width, are woven on one loom.

I expect to return to this subject and its application to general economy of production in a later report. I allude to it now only in the general reference I am giving to Irish industries. With these advantages of cheap labor and great eagerness for finding opportunities to work all over Ireland, with an intelligent population, quick to take up and learn all manipulations to which they are set, with the excellent quality of the wool which the Irish sheep produce, one should expect to find quite a flourishing industry there. But, alas! there are no more than half a dozen prosperous mills in all Ireland, employing in all but a few thousand hands. On the other hand, I found a great many mills closed up for want of orders.

I don't want now to enter into a searching inquiry and satisfactory explanations of the reasons which lead to this phenomenon. I can not, however, restrain myself from alluding to the time-honored axiom of a certain school of political economy, maintaining that when wages are higher in one country than in another, it is invariably that the low-wage country draws trade away from the high-wage country

and curtails employment in the latter, and thus reduces wages to the standard of the competing country. The low wages of Ireland, subject to the same fiscal law of England, ought long before this have destroyed the woolen industries of England and built up a flourishing trade for the "Emerald Isle," if this theory had any practical foundation in the world of facts. The more so as capital and commercial enterprise in England are wielded by business men, and not by philanthropists; by men who have an eye to money making more than

There are now only 5 or 6 large mills in Ireland, I am told from creditable sources, in the manufacture of woolen goods able to compete and hold their own and make any money at all. These work with improved machinery. The others are small country mills and have great difficulty in getting along. In passing I found a number of them closed up. They were pointed out to me by the drivers, who told me that mills could get no orders, and the country people were too poor to buy anything. One mill, near Kenmare, working 12 hands, was shut, being "overstocked," as I was told. A mill of 12 hands overstocked! Some of these work for local commission men, or take the wool from the farmers and charge so much per stone. These pay very small wages and get smaller work done yet. House-spinning is, however, very largely carried on yet by the women in their country homes, carding and even dyeing their own wool and

There are whole districts where farmers, so called, with a few acres of land, are weavers, having one hand-loom in their little mud cabins, on which they earn a few shillings a week in winter time by weaving the homespun yarn for the people living around the neigh-

borhood.

I visited one small weaver between Kenmare and Glengariff. He was weaving a very good stout tweed then, for which he had received from his neighbor's wife the black and white yarn, spun by herself, the natural colors of the wool. He received 4d. per yard for weaving 27 inches wide, of which he can make 5 yards a day; but as he has to do the mounting of the loom and all the other attending work, some deductions have to be made from that. Of flannel he can make about 10 to 12 yards, for which he gets 2d. a yard. In this way the farmers use up most of their wool themselves. As there is so very little traffic and other means of employment to bring money within their reach, they are all compelled to use and wear their own homespun, and consequently traffic and trade is about as dead and dull in this part of Ireland as manufacture. This weaver was an old man of about 60. He lives in a hut 10 by 8 feet, which is nearly all filled up by a loom older than he himself, having been inherited from his father. It is about as primitive as the looms I have seen at the last year's Colonial Exhibition at London, employed by the Hindoo weavers. For sleeping room he has placed bare sticks, cut from the trees, across the wood-work over his foom, upon which he sleeps on a bed of straw, covering himself with old bags or what he can find. The flooring is the mud floor of the soil, and the place is warmed up with a little smoky peat fire on the floor, with an escape for part of the smoke through a flue answering for a chimney. He was a cheery old fellow, in fact, like most of the poor people in Ireland whom I met. In his younger years he was a bricklayer in England; now he has returned to Ireland and is well satisfied if he can ply his old trade and earn enough to keep him in bodily repair. Work, how-. ever, only lasts for him from summer until after Christmas, and very little work can be found for the first six months of the year, which is the case with all hand-loom weavers. Most of them, however, as said above, have a little land to keep them supplied with the merest necessities for these dull months in the weaving trade, and don't entirely depend on their looms for a living, as this old man does. I asked about his diet and he gave me a piece of bread made of yellow meal, which I have been shown by nearly all the poor people and small farmers whom I visited.

As to tea, coffee, or beer, and meat [he said] we know nothing at all of that. Cold water is what we drink and yellow meal we eat. If I have 2 ounces of to-bacco a week I am very happy.

He pays no rent, as his neighbors, also very poor people, gave him the little shed which he occupies free of charge. I find more charity and kindness among the poorest people towards their kind

than among any other class in life.

only ten months.

In Ulster I found a good deal of hand-loom weaving in woolen goods ruling yet, especially on comforters, spreads, and blankets. It is found that it can well stand competition, and on very favorable terms too, with mill work and power-looms, for reasons easily demonstrated, but which explanation I have also to reserve for another part.

One weaver whom I visited at Newtonards, near Belfast, a scarf-weaver, earns about 9s. per week. Out of this he pays 1s. 6d. for house-rent, 1s. for coal, and 1s. for tobacco. They were husband and wife and had no children. He has, however, even with these scanty earnings, not full employment the whole year round, at best

Three or four years ago his earnings were nearly double. The cause of this great decline is partly due to the greater competition,

but principally to the action of middle men.

He is making the work for Glasgow manufacturers; that is to say, merchants. These "manufacturers" will give out the wool and stock to agents, who distribute it by giving it to whomsoever will do it the cheapest. While the hand-loom weavers in and around Glasgow will get nearly the full price, as formerly, the poor weavers of Ireland don't get more than half of their former earnings, the other half going to the subagent in Ireland. The reason is, that labor in Ireland is not organized, and that the poor people fear that if they dare to do anything in organizing and resisting this state of things the agents would give them no work at all; consequently they offer no resistance. Too poor to strike and too demoralized and timid through poverty and fear. They were a very nice class of people, and talked very cleverly about their condition and conditions in Ireland in general, and, though perhaps not more intelligent, they are more prosperous than their fellow-beings in the south and west of Ireland. The wages of other members of the family contributed to this, in their individual case, the wife earning about 2s. 6d. per week in winding the yarn for her husband, and, besides this, they get £8 per year for doing the cleaning work of the national school and the church. This makes them quite comfortable, comparatively speaking.

A small factory in the same place, which I visited, occupied in the manufacture of blankets and bed-quilts, employs about sixty or

seventy outside hand-loom weavers the year round.

This branch I found fairly prosperous; a good deal of their manufacture goes to America and Manchester. As for Ireland, they tell me that most of the work they do for Ireland goes to "homes and poor-houses, as others are too poor to give out much work, if any."

This was told me in Ulster, the prosperous part of Ireland.

This is about all that can be said about the woolen industry of Ireland. In Cork and neighborhood I found two cotton mills. Fine places from the outside, but closed up and out of employment for want of orders.

Flour mills found in different places out of use on account of the competition from America, a competition which they were not able

to sustain.

And still all these poor people would be happy and contented if employment could be guarantied to them for the year round at 1s. 6d. to 2s.per day, and they can not find it. If they have it, they can not maintain it against labor of from 5s. to 10s. a day 4,000 miles away.

#### HOSE MANUFACTURE AT BALBRIGGAN.

This mill is justly renowned the world over for the superiority and fine quality of its goods. That most all manufacturers of hose of a superior finish have appropriated its name and trade-mark is the best proof of the excellence of its work. This injurious and not very honorable competition has lately been stopped by the passing of the new trade-marks bill.

One might have supposed that this industry would have been a flourishing one in Ireland, but in spite of the great exertions made by its manager and owner, Mr. Whyte, it has not yet attained to any very formidable figure in the amount of its sales, although it is constantly increasing and enlarging, and under the workings of the new bill it is hoped and expected that it will gradually become a very large industry—a thing greatly to be desired and to be wished for by all who believe that excellence of work ought to be fostered and encouraged by all possessed of a cultivated taste.

The present output, if I remember right, was given to me as about

£20,000, half of which goes to America.

The mill had a fire some years ago which set it back considerably. But this is probably the cause of a new era in its history. New machinery has been put in, and the concern becomes more able to drive all competitors, who have adopted and copied their style and name, out of the field.

Here, as in so many parts where I made investigations as to the reasons of the difficulty or difficulties in competition, I have met with the typical answer, "cheaper labor in Germany," which seems now the bugbear of the industrial world; but when I inquired about the price of labor, etc., and other things I was easily able to convince my informants of the fact that labor was certainly not much cheaper in Germany than it was with them, and that other reasons must be sought in a different direction.

I find here labor was paid considerably less than in Nottingham, and even less than in Chemnitz according to the statement of the proprietor, in a great many branches of work. The whole basis of work prior to the fire, however, was such a costly one that it certainly could not maintain itself against more improved methods adopted by other more successful competitors. So, for instance, a great deal of work was still performed on hand-frames, doing one at a time in the

very finest numbers and two in the fine medium numbers by one frame-handler. They have now introduced an improved "cotton-frame," and here I saw one man and two boys manage 2 frames, with 12 hose worked at one and the same time on each frame, or 24 on both. The man on the cotton-frame earned about £2 per week and the boy helpers an average pay of 12s. each., while the man working a hand-frame would not get much more than 15s. per week. But it is apparent that the man earning £2 does much cheaper work than the one earning only one-third his wages.

It is evident from this that in making comparisons as to the relative influences of high wages upon the competitive capacity of the industries carried on by individual countries among their own people and between different nations, they must first of all study the means and methods adopted and applied before they can ever ven-

ture to suggest any argument based thereon.

Girls and embroiderers employed by the Balbriggan hose manufactory earn from 7s. to 8s. per week—a neat and nice employment. It is difficult, however, to keep them at home when they have become practical and are well trained to the work, as they are very quick at leaving and going to Nottingham, where they earn 12s. per week; also showing that, if anything, cheap wages are in favor of Bal-

briggan and not against it.

One of the main features adding to the greater difficulties of Balbriggan against other hose-manufacturing centers, and probably the determining one, is a freak of that powerful regulator in the drygoods world, "fashion." When white stockings were worn, fine and high-priced goods made at Balbriggan found ready sale and they could sell all they could produce. These fine goods were all made on fine numbered hand-frames by expert hand-frame weavers. A good many of these goods went to America, many of them as high as 140s. or \$35 per dozen. Since, however, fashion changed into colored goods these high-priced fine white goods found no sale, or only to a very limited extent. Even the very richest, with whom, however fine an article, the high price is frequently the greatest inducement to its purchase, ask now for cheap colored hose, where fancy directs a frequent change and selection of new and varied patterns and designs. They naturally do not want goods made to last, as after a few washings they wish to change for new varieties coming into the market.

But having detected a new system of manufacture and adapted themselves to the new demands, both in coloring and dyeing, and with the new protection granted to them by the law in guarding their well-earned reputations against infringements, it is to be hoped that at least this industry will in a very short time stand upon more prosperous ground than it ever was placed before.

#### IRISH LACE.

Lace making in Ireland has about the same story to chronicle as the other industries mentioned. Its reputation is more extensive than its realities.

Much interest was manifested by benevolent people some forty years ago, at the time of the great famine, to give heart and impetus by the establishment of schools and the creation of agencies for the distribution of the work of the lace makers among the trade.

At one time a considerable activity was displayed and quite an active trade done in Irish lace with fair employment for the lace

makers. Some years ago it was calculated that no fewer than 1,500 persons were employed in the city of Limerick alone. It is said now that no more than 300 are employed at the present time. When the demand for lace was at its highest good lace makers could earn as much as 2s. 6d. to 3s. a day. At the present time the very best do not make more than 8s. and many not over 2s. per week.

Mr. Ben Lindsey, of Dublin, who has interested himself very much in the effort to raise the efficiency and skill of lace makers and in the improvement of designs, and who collects and distributes commercially three-fourths of the work of the lace makers of Ireland, says that at one time he employed nearly 3,000 lace makers, while at the

present time he has not work for more than 500.

To this sad state of affairs contributes primarily the decline in the demand of lace generally, attributable first to the influence of fashion, and then to the large expansion of, and the great improvements made

in, the manufacture of machine-made lace.

When we consider, however, that the classes who were in the habit in former times of wearing real lace are much more numerous now than, say, twenty-five years ago, which will make up somewhat for decline through fashion's influence, and that up to this time when inclined to wear lace would not wear imitation lace, then we may say that the latter objection does not hold out very strongly. Still I admit that the demand for real lace is not now what it used to be.

But lace making in Belgium and in and around Brussels is comparatively active even now and gives employment at fair wages to the poor people and peasantry around. This is due to the much greater and more systematic efforts of the Belgium Government in establishing schools for the propagation of artistic notions of lace designing, which has brought the present productions of Brussels lace makers far above in beauty and perfection of design from what I remember it to have been in Germany some thirty years ago. is certainly far ahead of the old Brussels lace and Point de Brabant, largely sold then. The same can be said of the lace makers of the Silesian Mountains, in Germany and Austria, where the lace industry of the Erz-Gebirge, at one time in flourishing condition, became nearly extinct. The Government of Austria helped them by establishing industrial schools, and the improvement in design and quality of the lace became so apparent in consequence thereof that the industry took a new start, and although not so well employed as in the time of its greater demand, still gives the poor people some kind of employment and enables them to earn enough money to bridge over the frequently occurring starving periods to which these poor mountain dwellers are often exposed.

The designs of Irish lace and the whole workmanship of the many numerous kinds which I have examined are so poor and unartistic that few people would wear them if it were not to buy them as a kind of curiosity, for charity's sake, or as a reminiscence of a visit to Ireland. True, the art schools at Dublin and Cork give instruction in lace designing, but I am told that only the wealthier classes practice there, more for their pleasure and enjoyment. The poor lace makers live in the country and are not benefited or reached by the

city schools.

### IRISH POPLIN.

If poplin manufacture is not a flourishing industry the fault is not with the workers or the manufacturers.

good and the demand for poplin very high, the manufacturers were hardly able to fill the orders, and high wages were earned by the work people. Now the trade is at a very low ebb. But of late a slight improvement has taken place, due largely to the efforts made by the court circles and the aristocracy to bring the demand for poplin again forward by wearing poplin at court and other dress occasions; but still at the present time there are not more than 100 looms employed on poplin weaving in Dublin and about 50 more outside. The weaving is all done on hand-looms. The silk used is all pure silk without any loading in dyeing. The strain is too great on the silk in poplin to allow loading, which must always have a tendency to weaken the fiber.

The dyeing is all done in and around Dublin, and the colors are as fine and rich as I have seen dyed in any dyeing establishment which I have visited during my round of inquiry in Europe. The same must be said about the wool dyeing of the "weft," for which Aus-

tralian wool is used.

The hand weavers can make of the cheaper qualities about 8 yards a day, and of the better qualities, satin striped, a very beautiful article now coming into fashion, they can make from 3 to 4 yards. For dyeing they pay from 2s. to 2s. 6d. per pound, and for the cheapest colors (white) as low as 1s., pure dye. The average, however, is from 2s. to 2s. 6d., a higher price than for dyeing paid in New York and neighborhood. Here only 14 ounces is returned, which is 2 ounces less than unboiled weight. The dyeing, however, is much, finer and richer in Dublin. How much the water and how much skill is

chargeable for this result I can not say at this juncture.

The weavers and people employed are all old hands, who have been in the employ of the firms ever since they entered the trade. They always stand in current account with the firm who employs them, which allows them to draw money in dull times, when there is no work. This the weavers invariably make good when the work commences again. A silk-weaver's society holds itself responsible for the debts of any weaver against the firm employing him, if the weaver leaves the firm on his own account, but if the weaver be dismissed by the firm, the firm has no recourse to the weaver's society for any balances that may be due by the weaver. The work people few waiv find employment for their own family in the auxiliary opera-

market. f this industry, and if work is flush very fine aggregate earn-But ha realized. At the present time very seldom more than one themselverly has employment.

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their well-ea that at least t.

WOOD CARVING.

prosperous grc one of the industries intended to give employment to and the poor people, who in winter time, at least, have

pport. Considering that this industry is carried on Lace making inhave very little means of instructing themselves and the other industriartistic propensities, some very fine pieces are pro-

than its realities.

Much interest was all self-taught, and principally go back to the old years ago, at the time, we see in the old monuments handed down to by the establishment or

distribution of the work of the close relationship of their archaic de-At one time a considerab for instance, in the old Scandinavian and active trade done in Irish LI have seen in the South Kensington Mu-

seum carvings on a war canoe from New Zealand, closely resembling the serpentine interlacings of Celtic and Scandinavian ornamental carvings. This carries a certain amount of interest with it, and attracts many buyers on account of the originality of the work. The treatment of the human figure and other designed parts, but principally the human figure, leads us back by its stiffness and want of proportion to the earlier Romanesque, and the whole character of the work reminds us of that early period of mediæval times. But still all this gives it a certain charm, and I am sure more of a trade could be done, especially with America and its many Irish people, if properly cultivated. The material employed is black-bog-oak wood. It is essentially a house industry; the people all work in their houses and are all self-taught. No one of them ever apprenticed. There seems to be a kind of latent talent in them for this kind of work. This employment is also a very precarious one, and finds occupation only in summer time, when tourists abound in Ireland. They may be said to be fully employed from July to October, while from October to January very little work is found for them, and from January to July only such work as those are willing to put in operation who can afford to work up a little stock for the busy season.

I doubt whether more than 200 people in all Ireland find employ-

ment in this industry.

#### BELEEK POTTERY.

This is an industry which, in Irish parlance, does not exist. It has also grown out of existence, and the place where it stood knows it no more.

> J. Schoenhof, Consul.

#### EUROPEAN CROPS.

#### REPORT OF CONSUL-GENERAL JUSSEN.

On the 29th and 30th of August, an international seed and grain market was held in the city of Vienna, and I transmit herewith the data furnished by the reports and discussions of this international convention.

Owing to the fact that some time before the date of the convention it was definitely ascertained that the home demand of all European countries (Great Britain excepted) would be covered almost exclusively by their respective harvests, and that consequently the business to be transacted would be of a very limited extent, the attendance was not as numerous as in former years.

The following countries, however, were represented, and full reports were made as to the harvests of each of them, viz: Austria-Hungary, Prussia, Saxony, Bavaria, Baden, Würtemberg, Mecklenburg, Denmark, Norway, Sweden, Italy, Switzerland, Holland, Great Britain and Ireland, France, Roumania, Servia, Egypt, and British

India.

#### AUSTRIA-HUNGARY.

Wheat.—The yield of this cereal in Austria-Hungary for the year 1887 exceeds the usual average yield from 11,500,000 to 12,000,000

hectoliters (1 hectoliter equal to 26½ gallons or 25 Winchester bushels).

The weight per hectoliter exceeds the normal or average weight

from 4 to 6 pounds.

The total wheat area in Austria-Hungary comprises 4,070,040 hectares, of which 2,888,266 hectares are situate in Hungary and

1,181,775 hectares in the Empire of Austria.

The total yield of wheat for 1887 in Austria-Hungary is estimated at 61,000,000 hectoliters; the average yield in former years having been about 49,000,000 hectoliters, of which 35,500,000 hectoliters were harvested in Hungary and 13,500,000 hectoliters in Austria. The convention estimates that the excess in 1887 over the average yield of wheat amounts in Hungary to 26 per cent. and in Austria to 16.6 per cent.

The total yield of wheat in Austria-Hungary during 1887 in bush-

els amounts to 177,000,000.

Rye.—The yield of rye in Austria-Hungary for 1887 exceeds the average yield about 2,000,000 hectoliters. The average yield being

42,000,000 hectoliters and the yield for 1887 about 44,000,000.

Barley.—The average yield of barley in Hungary is 15,500,000 hectoliters, and in Austria 16,500,000, or together in Austria-Hungary 32,000,000 hectoliters. The yield for 1887 exceeds this average by from 3,500,000 to 4,000,000 hectoliters.

Oats.—The average yield of oats in the whole monarchy is about 51,500,000 of hectoliters. The yield for 1887, however, falls short of

this average by about 1,500,000 to 2,000,000 hectoliters.

The export capacity of Austria-Hungary was estimated by the grain congress, upon the basis of the foregoing figures, as follows:

	mever-cemmera.		
Wheat and flour	9,000,000 to 10,000,000		
D	<b>ጀ</b> ለሲ ስለለ		
Barley and malt	8,500,000 to 21,000,000		

The yield of oats, however, is hardly sufficient to cover the home demand.

Corn.—Corn is raised only in very small quantities in Austria, but in Hungary it is cultivated to a considerable extent. The yield throughout the monarchy will not be up to the usual average.

#### PRUSSIA.

Rye has yielded very nearly an average crop; wheat about 2 per cent. more than average. Barley is of excellent quality, but the yield

somewhat smaller than the usual average.

The crop of oats is poorer than that of all other grains, in sharp contrast to the previous year, when this grain surpassed all others in quantity and quality. The prospect for potatoes is not very promising.

#### PRUSSIAN SILESIA.

Wheat has yielded a full crop; quality excellent; rye about 90 per cent. of the usual average; barley about 5 per cent. more than the average for the last ten years; oats about 90 per cent. of the usual average.

#### SAXONY.

Wheat yields from 100 to 105 per cent. of the usual average; rye from 95 to 100 per cent.; barley and oats 90 per cent.

### BAVARIA.

Wheat yields from 120 to 125 per cent of the usual average; rye from 118 to 120 per cent.; barley from 105 to 115 per cent.; oats from 70 to 80 per cent.

#### BADEN.

The wheat crop is excellent in quality and quantity. Rye is excellent in quality, but less in quantity than wheat. Barley yields a middling crop only, as well as to quantity as quality. The oat crop is small. Wheat 100, rye 85, barley 90, oats 65 per cent. of the usual average.

# WÜRTEMBERG.

The yield in all cereals is only 80 per cent. of the usual average but excellent in quality.

#### MECKLENBURG.

Rye yields 85 per cent. of usual average. Wheat is most excellent in quality and yield; is 105 per cent. of usual average. Oats only about 83 per cent., and barley about 98 per cent.

#### DENMARK.

Wheat promises well, and the yield is estimated at 100 per cent. of the usual average. Rye only 85 per cent. Oats not more than 80 per cent.

#### NORWAY AND SWEDEN.

Rye is estimated at 85 per cent. of the usual crop. Wheat at 100 per cent. Oats about 95 per cent.

# UPPER ITALY.

Wheat crop, poor in quality, will yield hardly 85 per cent. of usual average. The total wheat crop of the whole of Italy is estimated at only 90 per cent. of the usual average, or at 42,334,800 hectoliters, and the import demand of the country will amount to about 10,000,000 of hectoliters. Corn will yield a full average crop, and the country will doubtless have a surplus for export. Rye and oats yield 125 per cent. of an average crop.

#### MIDDLE ITALY.

Wheat yields 75 per cent. of the usual average. Oats and rye only 60 per cent. Corn is in excellent condition and promises an unusually large yield.

### EASTERN ITALY.

Wheat will yield 10 per cent. more than the average, but the quality has suffered by heavy rains in June and July. Corn is in excellent condition; prospective yield very large. Oats and rice a middling yield.

#### SWITZERLAND.

Wheat excellent in quality; wields 110 per cent.; rye 100 per cent., and oats 85 per cent. of the usual average.

#### HOLLAND.

Wheat 100 to 105, rye 110, barley 100, oats 85 to 90 per cent. of usual average.

#### FRANCE.

The wheat crop of this year is estimated at 167,000,000 hectoliters, being 105 per cent. of a good middle crop. It is stated, however, that a considerable quantity of wheat must be imported by France to cover the home demand, because the quantity in store is very limited. Rye less than an average crop. Rye and oats have suffered by drought, and the yield is very small, and much less than the usual average.

RUSSIA (PODOLIM).

Wheat from 95 to 100 per cent. of the usual average. Rye from 90 to 95 per cent. Barley 100 per cent. Oats promise a good yield.

#### CONGRESS POLAND.

Wheat 100, rye 105 to 110, barley 100, and oats 105 per cent. of the usual average.

#### MIDDLE RUSSIA.

The yield of all cereals is most excellent in quantity as well as quality.

#### NORTHERN RUSSIA.

Wheat and rye 95, barley and oats 90 per cent. of the usual average.

# ROUMANIA.

Quality of all cereals good; quantity about the same as last three years. On an area of 880,000 hectares, the yield of wheat is estimated at 22,000,000 hectoliters. 190,000 hectares yield 5,000,000 hectoliters of toliters of rye; and 700,000 hectares yield 38,000,000 hectoliters of barley.

#### SERVIA.

Quality of wheat good, being 74 to 78 kilograms per hectoliter. Rye varies in quality. Oats poor. Corn suffering with heat and want of moisture. Wheat yields 140 per cent., barley 100 per cent., corn 100, and oats 90 per cent. of usual average.

Prunes promise a good yield in spite of the great heat, but are not as good in quality as last year. The heavy prunes of last year, of which from 70 to 80 weighed a half kilogram, will not be produced this year.

# GREAT BRITAIN AND IRELAND.

Wheat.—An average crop of 32 to 37 bushels per acre is expected, against a yield of 26.8 bushels in 1886, 31.24 bushels in 1885, and 29.90 bushels in 1884.

The total yield is estimated at from 9,500,000 to 10,000,000 quarters, so that, after deducting the seed, 8,500,000 to 9,000,000 quarters there will be left for home consumption, and the importation of from 16,500,000 to 17,000,000 quarters will be required. The English wheat in store is believed to be very nearly exhausted and the foreign wheat

in store in England quite limited. Barley will yield 10 per cent. less than the usual average; oats 15 per cent. less; and beans and pease from 40 to 50 per cent. less. Potatoes are healthy, but the crop will be small.

#### EGYPT.

Wheat of excellent quality and abundant quantity. The export of wheat has already reached 80,383 ardeb against 30,436 in 1886. The total yield in 1886 was 92,710 ardeb, and 72,436 ardeb in 1885. The estimate for this year is: Wheat, 95 per cent.; beans, 90 per cent.; corn, 85 per cent.; barley, 80 per cent.; and lentils, 80 per cent. of usual average.

#### BRITISH INDIA.

The area cultivated in wheat is estimated at about 26,000,000 of acres, and the average yield of wheat at 7,135,000 tons. The yield for 1887 is estimated at 6,390,695 tons. From January 1 to June 30, 1887, British India exported to Europe 9,679,516 cwts. of wheat.

# THE HOP CROP OF 1887.

The exportation of certain qualities of hops from Europe to the United States has of late increased to a considerable extent. The increase from Austria-Hungary alone, during the year 1886, over the previous year, amounted in declared value to \$66,257.69. The total amount of hops exported from Austria-Hungary to the United States in 1886 amounting in declared value alone to \$188,915.54, as shown by the last annual report of this consulate-general.

A specified report as to the hop crop of the current year must therefore be of great value and importance to the American consumer.

The following data are collected from the several reports upon the hop crops of Europe presented at the grain congress at Vienna.

The yield of the hop plant in Bohemia promises to be excellent in

quality and quantity.

In Upper Austria and Styria the prospects are less flattering. Upper Austria will reap but half a crop, the drought having injured the plant very seriously, and in Styria the yield will not be much better.

Galicia expects a good middle crop.

The reports from the German Empire, where until now an average crop was expected (about 500,000 centners), are less favorable than they were a short time since; the drought begins to show its effects. In several regions of Bavaria, Baden, and Posen complaints are heard of copper rust (Kupferbrand).

France will have a small yield and Belgium a weak half yield.

In England the hop-yards have been much injured by insects during the present year, although some districts were free from this plague. Until recently the English estimates varied between 450,000 to 500,000 cwt., but it is quite probable now that even the first figure is too high. The state of the weather for the next four weeks may diminish the hopes of the English hop planters considerably. At any rate the home consumption of England, amounting to 650,000 cwt., can not in any event be covered by the home yield.

These estimates are one and all based upon the hope that the next weeks will bring ample rains, but if the hot and dry weather should continue, there is every prospect that the yield will fall far below the present estimate. On the whole the several reports agree that even under the most favorable circumstances as regard the weather from now until the hops are harvested, the crop will fall far below that of last year.

The following estimates of the probable yield of the several countries, based upon the present condition of the hop plant, were re-

ported by the firm of Gütermann Söhne, of Saatz, Bohemia:

Meter Meter	r-centmers.
Austria-Hungary	75,000
Germany	245,000
Belgium	<b>8</b> 0, <b>00</b> 0
France	18,000
Russia (Russia consumes 20,000 meter centner)	10,000
Holland and Sweden (about)	5,000
The countries of the European continent	888,000 190,000
•	
Together	573,000
Consumption of the European continent (estimated)	315,000
England	325,000
Total European consumption	640,000

To cover this deficiency, amounting to 67,000 meter-centners, Messrs. Gütermann Söhne rely on a surplus in the United States of about 50,000 meter-centners out of a prospective total yield of 150,000 meter centner and on old stock in store.

Since the presentation of these reports the weather throughout Europe has up to this date continued hot and dry, and it is quite evident that unless favorable weather sets in the estimates above reported will not be realized by the actual yield.

EDMUND JUSSEN, Consul-General.

United States Consulate-General, Vienna, September 10, 1887.

# THE ITALIAN SILK CROP OF 1887, AND AMERICAN PURCHASERS.

# REPORT OF CONSUL CROUCH.

This year was marked by an unusually late spring and prolonged inclement weather, which delayed greatly the beginning of the bacological campaign. In fact, as late as April 19 no one thought of putting the "seed" to incubation, on account of the backwardness of the mulberry trees in budding. All during the latter half of April snow and hail storms were reported from the various localities of Northern Italy, and great damage to the mulberry trees was feared; but fortunately, as it turned out, the fears for the most part proved unfounded.

The first seed were put to incubation in Northern Italy about the end of April, that is, at least two weeks later than in preceding years. In the early days of May most of the seed had already been put to incubation. In Central and Southern Italy, always in advance of

Northern Italy, the worm in a few instances was already hatched. During May the weather was fairly favorable, although in some localities the mulberry trees were still very backward, and the course of affairs was on the whole satisfactory. The last week of May and the first of June again brought cold weather and storms, and great apprehensions were entertained of evil effects on the worms. However, the superior quality of the seed and the skill of the growers

brought them through with very little damage.

The following weeks brought an abrupt change of weather, which became unusually hot. The second week in June is the critical period, for the worms then begin to climb, and the various diseases manifest themselves. This, in spite of the unusual heat, was safely passed, the worms being apparently in excellent condition. In Southern and Central Italy cocoons were already beginning to appear. During the rest of the month the weather remained fine but hot. The spinning of the cocoons proceeded regularly and in general to the satisfaction of the growers. By the end of the month the harvest was about finished, and the result, in spite of unfavorable weather and the fears entertained at various periods, seemed satisfactory to all, apparently surpassing the unusually large crop of the preceding year. The result of this belief was the low price paid for cocoons at the opening of the earlier markets. Very soon, however, the opinion changed, and prices took a sudden and decided rise.

I have followed somewhat in detail the course of the harvest and the changes of the weather, for therein lies the explanation of the falsity of the too sanguine expectations. Although the amount of seed put to incubation was superior to that of the previous year, and the course of the raising seemed satisfactory, the actual weight of the cocoons turned out to be less; for the prolonged cold weather of the earlier part of the season, followed by the excessive heat, had the effect of causing the worms to pass through the changes more rapidly and to work less, with the result that the cocoons were lighter. Thus, although the number of cocoons was greater than that of the previous year, the actual weight was less, as is apparent from the following official figures:

Market.	1887.	1886.	Increase.	Decrease.
	Kilos.	Kilos.	Kilos.	Kilos.
Cuneo		818, 870	1	57,400
Racconigi	. 755,760	728, 600	82, 160	
Asti		607, 800		17,040
Novara	467, 521	488, 882	1	20,811
Alka	441 000	400,000		
Alba	461,000	545,500		
Turin	438,650	488, 810		45, 160
Jesi	. 881,268	884,067		2,804
Osimo	. 288, 414	208, 792	79,622	
Pinerolo	.1 284.800 1	850, 1 <b>8</b> 0		65, 880
Voghera	. 284,580	805,660	1	21,080
Saluzzo	. 287,550	858, 500		120, 950
Alessandria	284,550	189, 810	45, 240	2.00,000
Cavour		201,820	18, 480	
	. BUG 800	259, 900	10, 400	58, 800
Fossano	. 206,600		10 000	56, 500
Pesaro	. 204,789	190, 820	18, 969	
Moudovi	. 197,600	887, 800		189,700
Brescia	. 185,000	223, 158		<b>38</b> , 158
Bra	. 180,250	292, 400		112, 150
Carmagnolo	176,900	198, 960	1 <b></b>	22,060
Reggio Emilia	. 167, 625	218,088		45, 458
Mantua		217, 215		60, 850
Fossombroni	189 220	186, 437	17 000	
Savigliano	. 158,770			
7 <b>0. 7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.</b>	. 146,500	198, 250	45 044	46,750
Vigevano	. 128,900	88,719	45, 241	
Stradella	. 124,500	110, 840	14, 160	
Fermo	. 106, 972	67, 275	89,697	

Markets.	1887.	1886.	Increase.	Decrease.
•	Kilos.	Kilos.	Kilos.	Kilos.
Joves	89, 100	182,500	A	48, 400
Arezzo	80, 180	88, 185		
Dogliani	75, 800	85, 200		
Casal Monf	75,000	00, 200	• • • • • • • • • • • • • • • • • • • •	
	65, 982	72,608		6,671
Cova	64, 950	159, 410		94, 460
Chrovasso	58, 356	<b>52, 600</b>	5,750	<i>.</i>
Novi Ligure	57,66	55 <b>, 39</b> 0	2,830	 
<b>. 153.</b>	48,505	88,950	14,555	
Nizza Monf	44, 140	55,700	<b> </b>	11,570
Fano	87,056	82, 575	4,481	
Pontedera	85,600	89,080		8, 480
Milan	31,861	<b>85, 929</b>		4,068
Total	8, 170, 088	8, 982, 560	828,018	1, 184, 495

The average prices (in Italian lire) per kilogram of cocoons at the four standard markets were as follows:

Alagaandria .	
Alessandria:	
Italian yellow 8,52	8
Italian yellow	6
Novara:	
Italian yellow	7
Italian yellow3,67Japanese3,18	4
Voghera:	
Italian vellow 8.63	8
Italian yellow	8
Mantua:	_
Italian vellow	3
Italian yellow3,313Crossed races3,063	9
Japanese	9

From the above table it will be seen that this year's crop of cocoons is about 9 per cent. less than that of last year. The cocoons that have been reeled so far show that the difference in the yield of silk will be still greater, for the chrysalis forms a larger proportion of the weight than last year. It is safe to say that the actual yield in raw silk of this year's harvest is at least 15 per cent. less, and American buyers must resign themselves to this fact. Prices are and will remain higher, and I anticipate a sustained market, and probably some advance on present prices. Recently there have been heavy purchases, it is presumed, for the purpose of speculation. This movement is controlled by the men who managed the operations of the syndicate of 1885, and they have the ability and apparently the intention of maintaining the present reasonably advanced prices.

One feature in this year's harvest is worthy of remark, and that is the freedom of the silk worms from disease, in spite of the very unfavorable weather. This shows the perfection that sericulture has reached in Italy, and especially the value of the bacological establishments, which, by years of study and the most careful selective breeding, have been able to bring about a vast improvement in the breed, and produce a most superior quality of "seed."

The silk reeling and spinning establishments have been making the same progress, so that Italian raw silk possesses an evenness and finish which make it far superior to hand-reeled Chinese silk. And this particular quality fits it peculiarly for the fast-running American looms, where a break is a much more serious and costly matter than in Europe. That the American manufacturer is beginning to appreciate this is shown in the rapid increase of exports of raw silk during the last few years. Thus, from 1880 the exports have been as follows:

. Periods.	Bales.	Amount.	Periods.	Bales.	Amount.
1880.			1884.		
Jan. 1 to Mar. 81		<b>\$</b> 58, 666, 55	Jan. 1 to Mar. 81	518	\$572,499.80
Apr. 1 to June 80	48	68, 614. 56	Apr. 1 to June 80	510	585, 584. 42
July 1 to Sept. 80	182	180, 599. 74	July 1 to Sept. 80	874	400, 998. 08
Oct. 1sto Dec. 31	124	143, 502, 26	Oct, 1 to Dec. 31	462	471, 514. 81
Total	841	446, 388. 11	Total	1,864	1, 980, 476. 11
<b>188</b> 1.	•		1885.		
Jan. 1 to Mar. 81	. 88	101, 840, 15	Jan. 1 to Mar. 81	671	711, 248. 66
Apr. 1 to June 30	.! 61	77,740.82	Apr. 1 to June 80	944	974, 785. 88
July 1 to Sept. 30	188	165, 589, 46	July 1 to Sept. 80		1,012,016.84
Oct. 1 to Dec. 81	301	878, 188, 00	Oct. 1 to Dec. 81	1,857	1, 298, 270. 84
Total	578	717,808.48	Total	4,018	8, 991, 270. 70
1882.			1896.		
Jan. 1 to Mar. 81	228	288, 998, 14	Jan. 1 to Mar. 81.:	1,076	1, 184, 044, 10
Apr. 1 to June 80	206	262, 115, 17	Apr. 1 to June 30	739	770, 110, 64
July 1 to Sept. 30	284	888, 014. 51	July 1 to Sept. 80	1.080	1,000,960.59
Oct. 1 to Dec. 81		542,766.28	Oct. 1 to Dec. 81	1,479	1,574,104.17
Total	1,179	1,431,889.10	Total	4,894	4, 457, 519, 50
1988.			1687.		
Jan. 1 to Mar. 81	864	421, 648, 10	Jan. 1 to Mar. 81*	649	745, 987. 05
Apr.1 to June 80	417	476, 298, 76	Apr. 1 to June 80	1,888	1, 297, 819, 25
July 1 to Sept. 80	556	619, 974. 81	! · ·		
Oct. 1 to Dec. 81	668	651, 120. 62	1		
Total	2,005	2, 169, 040. 29			

<sup>\*</sup>Strike in the American silk manufactories.

From the table it will be seen that the increase has been rapid and uninterrupted, and information that I have received from various

quarters convinces me that the increase will continue.

In this connection a word to American buyers seems timely. I am told by a disinterested expert, who is thoroughly acquainted with the New York market, that while experts here can detect a difference of 5 per cent. in the quality of raw silk, the average American buyer hardly detects a difference of 25 per cent., and that unscrupulous dealers have taken advantage of this state of affairs to palm off an inferior article at higher prices. It is accordingly of the greatest importance for American manufacturers to inform themselves carefully of the reputation of the houses from whom they buy, and to have buyers who are able to detect and are constantly on the watch for the smallest differences in the quality of the silk delivered.

Henry C. Crouch,

United States Consulate, Milan, September 5, 1887.

Consul.

# LABOR AND WAGES IN GERA.

#### REPORT OF COMMERCIAL AGENT NEUER.

Though the city of Gera has only 35,000 inhabitants, it is one of the most prominent manufacturing places in Germany. Of its industries the manufacture of worsted goods stands in the front rank, embracing about thirty factories, some employing as many as 1,000 steam looms. Besides, it contains five dyeing and finishing establish-

nance.

ments, three worsted-yarn spinning mills, seven carpet factories, four tobacco mills, seven accordion factories, five iron founderies and engine works, three horse-hair spinning mills, four piano factories, thirty-one tanneries, aside from a considerable number of manufact-

uring establishments of smaller importance.

While some years ago the industries in this city were in a flourishing condition, a great change has taken place since last year. The uncertain political state of Europe, together with the extraordinary fluctuations in the prices of wool, could not fail to exercise a most depressing influence upon the commerce of this place. Moreover, it is attributable to the continuous introduction of higher duties on the part of Austria, and especially of Russia, which renders the exports to both countries almost impossible. As a consequence, in many factories the time of work has been shortened. wages have been lowered, and laborers discharged, while the necessaries of life are comparatively high in price. Under these circumstances it is extremely difficult for the workingman to make both ends meet, and there is no question that the position of the American workman is eminently superior in all that pertains to the happiness and well-being of himself and family and in his ability to save for the future.

The fare of the factory hands in this region is of a simple kind. Their principal food consists of bread and potatoes. On rising in the morning they will have a cup of common coffee and some white bread or black bread and butter or cheese; their dinner will consist of some cheap vegetables, mostly potatoes, and a small piece of meat, but very often without the latter; at 4 o'clock they have one or two cups of poor coffee again, with some black bread and butter, and in the evening a supper of cheese or sausage with black bread and a glass of beer. There may be a change to this diet in some cases, but

they are to be considered as exceptional.

The married workman takes his meals partly in the factory and partly at home; the single one either with the family of a fellow-laborer or in a cheap restaurant. For the support of a family the wages of the husband are generally inadequate, and therefore the wife and elder children have to contribute a share to their suste-

The lodgings of the laboring classes are of a very poor kind. In most cases they are two or three comfortless rooms. Owing to the large and constant increase of the population rents are steadily rising, and range from 150 marks (\$35.70) to 180 marks (\$42.84) per

year, according to location and condition of the premises.

The workingmen in this district are industrious and honest, but I find that not a few of them, and principally the youthful members, indulge in excessive beer-drinking, so that they will rather miss a substantial meal than their customary quantity of beer. As indicating the large beer consumption in Gera, it may be mentioned that there are about two hundred saloons engaged in this trade. The population being 35,000, there is accordingly one saloon to every 175 inhabitants. Brandy, rum, gin, and other liquors are not much used. The heavy impost laid on all spirits from October 1, this year, and enhancing their prices, will still more restrict the sale of spirituous liquors.

As to the method of working, the German lacks very much the practicalness and quickness of the American laborer. Unlike the free, independent feeling which characterizes the American work-

man, the German laborer feels depressed, owing to the low position he socially holds in this country. Accordingly it is not surprising that the majority of the working people are discontented and inclined to the utopianism of the socialists.

Strikes are of rare occurrence and generally prove unsuccessful, inasmuch as either the necessary funds are wanting or cheap hands

may be procured from other parts of Germany.

Workingmen usually commence work at 6 o'clock in the morning and quit at 7 o'clock in the evening, having half an hour for breakfast at 9 o'clock in the morning; one hour for dinner at noon; and half an hour at 4 o'clock for vespers.

The payments for wages are made each week on Saturday, except in some factories, where employes are paid on Friday, in order to deter them from excessive beer-drinking, to which they are more in-

clined on Saturday, the subsequent day being a day of rest.

Co-operative stores, prosperous as they are in other parts of Thuringia, have no existence in this city, owing on the one hand to the antagonistic principles of the socialistic party, being in favor of state help and against self help; on the other hand to the large competition, enabling the working classes to purchase the necessaries of life at the lowest prices, through the regular and usual business channels.

To examine the condition of factories as regards their safety there are specially authorized inspectors invested with all the powers of the police authorities. About their observations and dispositions annual reports have to be submitted to the "Bundesrath" (federal

council) and the German Parliament.

In case a workman meets with an accident, an indemnification is only granted if it can be proved that the director or any person having control of the factory is to blame for it. Should injury result from the accident the costs for medical treatment and also pecuniary losses have to be borne by the employer. If death follows, likewise the burying expenses must be refunded. A decision concerning an additional compensation in cash to the disabled or his heirs is left to the judicial authorities. The relations between employer and employed are mostly of an unsatisfactory character. While the laborer displays a feeling of willingness and good nature, when face to face with his employer, his real and true sentiments, as revealed to his fellow-laborers, are in many cases envy and hatred. It must be acknowledged that by some manufacturers laudable consideration is given to the moral and physical well-being of their employes, while with others the chief object seems to be to get the largest amount of work done for the lowest wages.

Taxes are of two different kinds. Besides the taxes on tobacco, beverages, and various necessaries of life, the income is subject to a

progressive tax. An annual income of—

<b>\$</b> 100	pays	\$1.70
150	pays	2.85
200	pays	8.57
250	pays	11.42
<b>800</b>	pays	<b>14.28</b>

Low as these taxes may appear from an American stand-point, they are, considering the low earnings, very frequently a heavy burden to the laborer.

Many women are employed in manufacturing pursuits, and if there is anywhere a class of persons who can justly complain of a hard

lot in life, it is the poor laboring women in this country. Not only has the married woman to do out-of-door work, she has also to attend to the household affairs during the time she ought to have for rest. In case the workwoman is mother of little children the latter are given either to a relation or an acquaintance. They are also brought to so-called "Kinder Cervahraustalten," where the children under the supervision of the local authorities are for a trifle of 30 pfennige (7½ cents) per week properly cared for. To these institutions, proving of great benefit to the laboring classes, only children between the ages of three and six years are admitted and brought

there every morning and taken home every evening.

The wages paid to female adults vary greatly, inasmuch as in different localities different wages are paid for the same kind of work; but it may be assumed that the earnings of the great majority employed in the factories of this district amount to 10 marks (\$2,38); while the minimum is stated to be 6 marks (\$1.43); the maximum 15 marks (\$3.57). Their hours of labor are the same as those of the male laborers. As a consequence of the compulsory school education, children from twelve to fourteen years old can be employed only for half a day in factories and are not allowed to begin work before half-past 5 in the morning and to continue work after half-past 8 in the evening. The employment of children younger than twelve years old in factories is, for sanitary reasons, prohibited. Living in small and uncomfortable lodgings, without substantial food and generally exposed to the hardships of life, it is not surprising that the mortality among the work-people, and especially their infants, is very considerable.

The obligatory "Krankenkassen," having for their purpose the support of the sick and disabled, prove of great benefit to both male and female factory hands. It would be impossible to give an accurate account thereof within the space of this report. Proceeding from the idea that the employer is bound to afford some relief to his emyloyés in case of need, it is partly also a system of self help. Accordingly the employer, as well as the employed, has to contribute to a common stock, from which the sick and disabled receive medical treatment, in addition to half of the average wages up to thirteen

weeks' time.

The employment of the many women in factories is considered to some degree the cause of poor wages, but it is an undeniable fact that many industries in Germany could not successfully compete with other countries were it not for the low standard of wages. The state of education of women and children employed in factories, imperfect as it is in many instances, compares very favorably with most other countries, owing to the compulsory school education throughout this country.

Regarding various small trades, I may say that the wages are as

follows, according to circumstances:

Occupation.	Wages.	Equivalent in United States currency.
Joiners and locksmiths Painters Slaters Masons Tinmen Carpenters	Marks. 14.00 to 18.00 10.80 to 80.00 16.50 to 94.00 18.00 to 18.50 14.00 to 20.00 18.00 to 21.00	\$8.88 to 4.98 2.57 to 7.14 8.98 to 5.71 4.28 to 4.40 8.38 to 4.78 4.28 to 5.00

These men are usually controlled by a master, who undertakes a job of work for a certain sum, paying the men their wages and taking himself whatever profit or loss may result from the job. In a still smaller way of business, masters have apprentices, who do the work under superintendence, but as the wages or terms are so various, as well as of a purely private character, I need not consider the matter here.

I transmit herewith what I believe to be a reliable statement as to the rate of wages prevailing now in the factories of this city.

Rate of the weekly factory wages and the corresponding hours of labor at Gera.

Description of employment.	Lowest.	Highest.	Average.	Hours of labor per day.
Weaving mills: Overseers Shearers Weavers, men Weavers, women Gluers Fasteners Pickers, women	\$4.82 2.88 8.60 1.44 2.88 8.88	\$7.20 6.00 7.20 8.60 5.28 4.80 2.40	\$5.76 4.44 5.40 2.52 4.08 8.84 1.92	11 11 11 11 11
Winders, women  Dye-houses:  Dyers	1, 92 2, 40	2. 48 8. 60	2.90 8.00	11
Washers Female hands Apprentices Finishing works:	9, 40	8.86	9, 88	11
	1, 68	1.92	1, 80	11
	1, 56	1.80	1, 68	10
Shearers Fullers Finishers Assistants Apprentices Accordion factories:	2.40	8, 60	8.00	11
	2.40	8, 60	8.00	11
	4.80	7, 20	6.00	11
	8.86	4, 08	8.60	11
	1.56	1, 80	1.68	10
Joiners Tuners Journeymen Apprentices.	8. 86	4.82	8.60	11
	4. 80	7.20	6.00	11
	2. 40	2.88	2.64	11
	. 96	2.16	1.44	11
	. 86	.60	.48	6
ron founderies and engine works: Turners Founders Journeymen	8.60 8.60	4.82 4.82	8, 84 8, 84 1, 68	10 10 10
Fanneries: Tanners Journeymen Tobacco mills:	8, 60	4.82	8. 84 8. 86	11 11
Twisters Journeymen Female hands Children Apprentices Tlour mills:	1.56	4.80 1.80 1.08	4.82 2.88 1.68 .42 .96	11 11 11 6 11
Millers  Journeymen  Carpet factories:	8. <b>6</b> 0	4. <b>82</b>	3.84	11
	2. 76	8. 00	2.88	11
Weavers Shearers Journeymen Female hands Apprentices Zhina ware:	8.60	7. 90	5. 40	11
	4.83	4. 80	4. 56	11
	2.88	8. 60	8. 94	11
	1.44	2. 88	9, 16	11
	1.44	2. 16	1. 90	11
Painters. Turners Finishers Journeymen Female hands	2.40	5, 76	4.08	11
	2.40	6, 00	4.90	11
	8.60	6, 00	4.80	11
	2.16	8, 60	2.88	11
	1.44	1, 92	1.68	11
Horse-hair spinning mills: Spinners Journeymen Female hands	8.60	4.83	8, 96	11
	2.59	8.94	9, 88	11
	1.68	2.16	1, 92	11
Worsted-yarn spinning mills: Spinners Carders, overseers Carders, common hands Washers Sorters Winders Engineers	8, 60 8, 60 1, 92 2, 88 8, 60 1, 92	4. 80 4. 00 2. 40 8. 60 4. 80 2. 16	4.90 8.80 9.16 8.94 4.90 2.04 4.82	11 11 11 11 11 11

As to the cost of living, I can give no better statement than to quote the retail prices of the principal articles usually classed among the necessaries of life:

# Retail prices of necessaries of life.

Bread:			
Whiteper pound		•	<b>10.03</b>
Black		•	. 024
Beef:			
Steaksdo	<b>\$</b> 0.20	to	. 24
Roastdo	. 17	to	. 20
Common			.141
Chickenseach	. 36	to	. 60
Muttonper pound			. 141
Porkdo			. 151
Vealdo	ı		. 18
Eggsper dozen	.141	to	. 20
Butterper pound	. 24	to	. 36
Cheese, Swissdo	. 24	to	.28
Coffee	. 80	to	.48
Tea	. 96	to	1:20
Sugardo	. 07	to	. 10
Potatoesper 100 pounds			.72
Cabbages	.021	to	. 05
Flourper pound	. 041	to	.051
Kerosene oilper liter		•	. 06
Milkdo			.05

CHARLES NEUER, Consular Agent.

United States Consular Agency, Gera, August 13, 1887.

### INDUSTRIAL EDUCATION IN GERA.

### REPORT OF CONSULAR AGENT NEUER.

The generally perceivable revolution prevailing in the condition of industries and a changed mode of production have brought forth the establishment of technical and industrial schools, serving for the advancement of technical knowledge. Of this widely spread system of industrial education the weaving school at Gera forms a branch.

Proceeding from the idea that special consideration has to be given to a thorough theoretical as well as practical training in the woolen industry, if its existence should be permanently secured and a successful competition with other countries rendered possible, it is mainly through the efforts of some prominent merchants in this city that the institute was established in the year 1868.

Wealthy merchants taking a deep interest in the school and giving their best attention to all details connected therewith, it is attributable to their liberality that the institute has been furnished with the necessary funds, which have been increased from time to time by donations and bequests. It has a principal and four assistant teachers, who are skillful weavers. The course of study lasts three years. The board of administration consists of specially qualified manufacturers

who have to watch over the school's equal progress, seeing at the same time that good order prevails therein.

To attain this object the institution is occasionally inspected by the

president of the board of administration.

The pupils are partly young workmen and partly young merchants

engaged in weaving-mills, and are divided into four classes.

The school is open twice a week, namely, on Sundays from 7 to 9 o'clock in the morning, and on Tuesdays or Thursdays from 8 to half-past 9 o'clock in the evening, thus not interfering with the usual working hours of the studer. ....

Theoretical instruction is given from various works on weaving, machines, textiles, and from a large collection of designs and models.

For the practical instruction there are in use 7 power-looms and 12 hand-looms, with their principal parts to suit the weaving of the various standard fabrics, besides other appliances for demonstrating the processes of preparation and of plain and fancy weaving.

As regards the single classes, the instruction therein comprises the

following subjects:

First class.—Origin and development of weaving, designing of

simple patterns, and calculations.

Second class.—Weaving in its present state of perfection, with special regard to the Jacquard loom. Method of rating goods by carefully ascertaining the quantity and price of material used; also, cost of labor required in the production of a given length and width of goods, or from given data of values of material and labor. Designing for Jacquard looms.

Third and fourth classes.—Machine construction, with special regard to the power-loom; comparative merits of power-looms; consideration of the principal parts which are common to all power-looms.

An exhibition embracing woven articles, sketches, designs, and writings of the pupils on textiles, machine construction, etc., is held in April of each year, and the last one, which took place on the 17th of April this year, was considered a great success. Prizes were awarded on this occasion, consisting of books on designing and weaving, cases of mathematical instruments, diplomas, etc. The institution has most favorably developed since its establishment, and by a systematic training of its attendants is doubtless exercising a highly beneficial influence on the woolen industry of this city.

The number of scholars has been 127 during the past year.

A long-felt want was realized this year by the opening of a new school-house, which, with its well-suited and spacious accommodations, allows an increased attendance. The fee to be paid monthly by each pupil amounts to only 50 pfennige (12½ cents), hence enabling the working classes to share the benefits of an advanced schooling.

I commend this system of technical education as well worthy of the serious consideration of our manufacturers, as specially trained and skilled operatives must be of vast service to us. It is an important factor and closely connected with the highest interests of our laboring classes. In this connection I draw attention to the English Parliament having recently suggested the establishment of technical schools according to the German system. The advancement of German commerce in all parts of the world is generally admitted, and while cheap German labor as well as the weighty governmental aid may partly account for this fact, it is no less the superior schooling which opens to this country new markets.

Our merchants ought to adopt the same methods to strengthen our manufacturing industries and employ all possible means in order that we may not only be able to keep pace but outstrip all competitors.

CHARLES NEUER, Consular Agent.

United States Consular Agency, Gera, August 26, 1887.

# PORTUGUESE CUSTOM-HOUSE RETURNS.

#### REPORT OF VICE-CONSUL-GENERAL WILBOR.

There has been received at this consulate recently a volume of custom-house returns up to and including 1885. This report is an improvement on previous publications of the same character issued by the ministerio da fazenda, and I have compiled from it the following tables:

Importations and exportations from and to foreign countries, 1881 to 1886.

Years.	Importa- tions.	Exporta- tions,	
1881	86, 858, 075 88, 789, 702 85, 191, 248	\$22, 822, 115 24, 862, 509 24, 615, 800 28, 806, 124 24, 478, 058 26, 060, 210	

# Importations and exportations during 1886. (Tariff classification.)

<b>o</b> .	Class.	Importa- tions.	Exporta. tions.
	Living animals	\$1, 120, 112	\$1,582,8
	Animal productions	1,965,765	419.7
	Fisheries	1,981,645	621, 8
4	Wool and hair	2, 768, 558	191.9
5	Silk	1, 129, 587	28. 2
8	Cotton	4, 402, 560	99, 4
7	Linen	801, 408	14,6
8	Wood and timber	1,288,058	8,008,
	Farinaceous articles	5, 578, 207	<b>384</b> , (
5		8, 288, 452	93.
ίΙ	Colonial productions	851, 884	1,812,
	Vegetable matter	2, 652, 854	164.
	Metals	2,479,918	767.
	Minerals	174, 170	14, 590,
	Wines, liquors, beverages		
	Glass and earthenware	822, 920	18,
3	Paper and its applications.	496, 601	57,
	Chemical products	408,888	963,
3	Divers products and compositions	788,888	51,
1	Miscellaneous manufactures	2, 820, 302	<b>36</b> 5,

# Imports and exports from and to the United States during years named.

Year.	Imports.	Exports.	Year.	Imports.	Exports.
1809. 1870. 1871. 1872. 1873. 1874. 1875. 1875.	\$1, 291, 870 1, 896, 060 1, 687, 190 1, 807, 230 1, 019, 620 1, 888, 440 2, 489, 610 3, 446, 990 2, 818, 650	\$180, 900 900, 440 402, 190 931, 446 199, 150 988, 850 408, 890 439, 890 874, 650	1878	\$2,455,890 6,409,440 5,732,370 5,985,790 6,113,380 4,995,750	\$840, 680 878, 890 658, 470 694, 980 755, 080

<sup>\*</sup> No returns furnished.

# Importations and exportations from and to the United States during 1885, classified as per Portuguese tariff.

ا.۰	Class.	Importa-	Exporta- tions.
7	Living animals	MS	
اقت	Animal productions	968 19, <b>53</b> 0	11
ã١	Fisheries	81, 119	î
ă۱	Wool and hair	878,000	
ī	801	77	
ŘΙ	Cotton	56,015	
; I	Linen	6, 200	
'nΙ	Wood and timber	494, 981	598, 1
6	Farinaceous articles	8, 899, 796	000, 2
5	Colonial productions	145, 898	1
íl	Variable matter	18, 804	7
H	Vogetable matter.	10, 868	7,4
il	Metals		
	Minerals	280, 680	00.2
4	Wines, liquors, beverages	99, 490	89,0
١	Glass and earthenware	1,875	
9	Paper and its applications.	1,884	
7	Chemical products	1,118	37,8
9	Divers products and compositions.	11,828	
<b>≯</b>	Miscellaneous manufactures	67,995	8,6

The sum of \$682,370.67 is given in Table 8 by the custom-house authorities as the total value of exports to the United States during 1885, but the declared value by shippers at this consulate and at Oporto agency was \$1,043,698.

Importations and exportations from and to foreign countries during 1885.

Countries.	importa- tions.	tions.
England United States France Germany. Brazil Spain Sweden and Norway Italy Holiand Morocco Russia Denmark. Austria African Portuguese colonies Asiatic Portuguese colonies Countries not enumerated	4 4 2 1 1	\$7,430,16 698,5 7,014,06 1,230,0 4,514,71 1,844,70 201,0 201,0 201,77 4,91 400,36 197,73 4,91 400,36 197,73

An examination of these tables shows a great uniformity in the total amount of the foreign trade of this Kingdom, although fluc-

tuating somewhat as regards the proportions maintained by individual countries. A sensible diminution is visible in importations from the United States, Brazil, Russia, and Italy, while slight augmentations exist in regard to France, England, and Belgium. In both branches of trade with Portugal Germany makes tangible progress, while Great Britain since 1882 has lost 40 per cent. of her export from Portugal. Owing to the great demand in France for ordinary wines of foreign origin to "fortify" the diminished supply of native wines, the general exports to France from Portugal increased during 1885 by 140 per cent., an increase not sustained in 1886, as the wine-growers of Portugal, intoxicated by their prosperity, demanded prices which drove French buyers to the markets of Spain and Italy.

It is difficult to make an intelligent digest of Portuguese customhouse returns. Upon investigation they are not found to be consistent with themselves, but the report herein transmitted may be con-

sidered as substantially accurate.

J. B. WILBOR, Vice-Consul-General.

United States Consulate-General,

Lisbon, August 28, 1887.

# CADIZ WINES AND GERMAN ALCOHOL.

#### REPORT OF CONSUL INGRAHAM.

I inclose herein the translation of a letter from the mayor of Jerez de la Frontera, the seat of the sherry-wine district, addressed to the civil governor of the Province of Cadiz in reference to his inquiries on the subject of wines and the importation and use of German alcohol.

MY DEAR SIR: In reply to your telegram, which I received yesterday, I hasten to reply by letter, as you have been pleased to request, that the condition of trade and of the wine market in this locality could not be more deplorable. It has been repeated a thousand times, and is perfectly well known, that the real and renowned sherry wines suffer such an absolute stagnation and want of demand, except at a ruinous price, before the imperious necessities of the producers, that purchases from old wines are rarely made as formerly—the conditions of this industry, once so flour-ishing and now so depreciated, having wholly changed, followed by the ruin of raiser and seller.

The vineyards of this district, representing so much wealth, have no value at present, as the land yields no profit and the capital no interest. Their proprietors meanwhile continue cultivating them as well as they can, at immense sacrifices, and awaiting better times to compensate them; but the evil has been increasing every day, and many have succumbed, and many others have contracted them out to middlemen, while few, very few, have persevered, using up the income that other investments might produce, upon the unfortunate inheritance that an irresistible strength of affection or the remotest hope impels them to preserve.

It is sufficient to convince one of the gravity of this situation, which the limits of this letter will not permit me to detail—the frightful decline in the price of our musts which twenty years ago readily sold from 80 to 90 pesetas the hectoliter, and to-day; in the crop before the last scarcely any producers have been found at the most ruinous prices; that is, from 13 to 14 pesetas for the same measure, while first-class wines, called a fuera, are still on hand in our cellars.

Ten years back, when they could pay the cost of labor and get a little interest on the capital—even that had already been pronounced the period of great decline; but now one can not understand how, at such prices, every vineyard has not been abandoned; and there are many who in despair invoke the phylloxera, the only calamity that has yet respected us, as a means of once more escaping from a state

of affairs that surely has no precedent in the history of the economical phenomena of our wine culture.

It is a fact, although generally at very low prices, that they export every year more butts under the name of sherry than the district produces, and yet the legitimate product has no sale, and the spurious wines, usurping their titles, injure all the time more the fame acquired through centuries, and are held in the foreign markets on a par with the artificial liquids of Cette and Hamburg. Now, the principal cause of so much falsification, of such discredit and ruin for our wines, is no other than the enormous importation of German alcohol, aided by all sorts of ex-

It is in the knowledge of all, what has been eloquently said and demonstrated in the cortes by the illustrious sons of this town, the Duke of Almodovar del Rio and the Marquis de Mochales; what has been represented to the Governor by our most respectable corporations, like the Exporters' Association, the Economic Society, and the Chamber of Commerce, has also been affirmed in special congresses, in memorials, and in periodicals, without even having been denied; and it is the truth and must be presented to your excellency in the clearest and strongest manner, that one who has seen his beloved town happy and prosperous and honored, sees it to-day, with deepest pain, poor and discouraged and near the verge of ruin.

As to prices of wine it is impossible for me to give your excellency any reliable

information.

emptions and privileges.

The great variety of brands of complex mixtures, of names and imitations, has introduced the greatest confusion in the business. Certain cellars look like mysterious laboratories, whose secrets nobody is allowed to penetrate, and hence comes that infinite variety of prices. What can be assured is that the finer grades—the genuine sherry—has necessarily only to maintain a value which will never allow it to become confounded with those liquids at 10 or 15 pounds a butt, and which are to-day the principal brands for exportation.

Those monthly prices which appear to be the main question of your telegram, and which usually are found in the statistics that the administration expects to make, would only tend to the greatest mistakes and errors with reference to a market under such exceptionable conditions as ours. Respecting the exportation, though undoubtedly much less than in former years, information substantially correct could be furnished by the custom-house, as the municipal administration is independent of that department, and has no facilities for such investigations.

Finally, the present crop appears to be no more than middling, according to statements of producers, and this provided that no extraordinary conditions should

occur before the vintage.

Such, with all loyalty and frankness, thoroughly informed, this mayoralty has the honor to communicate to your excellency upon the different points of the telegram which is replied to with the brevity you were pleased to recommend.

Awaiting your commands, I remain, with the greatest respect, your excellency's

affectionate servant, who kisses your hand.

JOSÉ HEREDIA.

In regard to the discussion going on, not only at Madrid, but throughout Spain, respecting the importation of German alcohol and its use in fortifying Spanish wines, I report that the subject continues to excite general interest in this important wine-producing district, particularly in this city, where wines are largely exported and German alcohol is imported in large quantities by several wholesale firms who have, for some years, sold largely to the wine producers of Jerez de la Frontera, San Lucar, Port St. Mary's, Rota, and other wine-raising centers of this district.

Distilled chiefly from the beet and the potato, inferior in quality to Spanish alcohol, and favored on importation dues by treaty, German alcohol has driven Spanish and all other alcohols from the market, not only of this section, but throughout Spain, until the amount of importation from Germany reaches annually \$12,000,000, proving detrimental to Spanish trade and commerce, injuring the reputation of the wines for purity, and affecting the general health in conse-

quence of the use of adulterated mixtures.

The chambers of commerce of Cadiz and Jerez de la Frontera have addressed complaints to the Madrid government, taking substantially the same view of the subject as that which now unanimously prevails in Spain, asking that prohibitory duties may be levied on German and other cheap distillations from cereals, potatoes and beets, from whatever country they may come, as well as on all wines artificially colored, and composed of any substance foreign to grape; that for consumption dues the values of wines may not be more than 30 per cent. of their value, and distilleries exempt from taxes for ten years; staves for pipes also free of duty, and machinery for manufacturing introduced free, besides 3 cents a gallon premium for exportation on spirits of wine for ten years. They also ask the creation of a laboratory in each province for chemically testing the wines, and that each cask may be marked under severe penalties for the omission.

In response to the request of the minister of state, the civil governor of the province of Cadiz has telegraphed the mayors of Jerez, Port St. Mary's, and San Lucar, asking for information about the wines of their respective localities; the amount of stock on hand; if the prices of exportation have increased or diminished during the current year; and other causes influencing the question for the consideration of the government.

I give below the quantity in liters of alcohols imported into Cadiz from 1877 to 1886, inclusive. About all the alcohol now imported into Cadiz is from Germany. Reckoning a butt at 132 gallons and a liter at 1 quart, we have an importation of about 11,000 butts into Cadiz in 1886, which, valued at the market price of \$80 a butt, would amount to \$880,000.

The interests involved in this importation are too great, and the taxable income too large, to allow prohibitory duties on the article without opposition, which is being developed among small retailers of fortified wines and classes of the population whose tastes crave a drink stronger than the light wines of the country.

· Years.	Quantity.	Years.	Quantity.
1877 1878 1879 1880	8, 450, 785 8, 650, 450 8, 276, 882	1882. 1883. 1884. 1885.	4,291,761 5,152,271 5,106,184

DARIUS H. INGRAHAM, Consul.

United States Consulate, Cadiz, August 3, 1887.

# CADIZ SALT-MAKERS.

# REPORT OF CONSUL INGRAHAM.

I inclose herein translations of two letters, respectively addressed to the ministers of finance and state, at Madrid, from the salt-makers of Cadiz and vicinity, requesting a readjustment of values and an additional duty on Portuguese salt. Under the recently expired treaty with Portugal, the tax on salt was only 54 centimos

of a peseta, or 10f cents the 100 kilograms, while that with non-

treaty nations was 3½ pesetas, or 60 cents per 100 kilograms.

The salt-growers complain that under this low tariff imposed by the expired treaty with Portugal the adjoining provinces were furnished salt at prices that Spanish salt could not compete with, and they request that in the new treaty now proposed the duty may be made high enough to protect their business. I learn from interested sources that the duty is asked to be brought up to what nontreaty nations pay.

DARIUS H. INGRAHAM,

Consul.

United States Consulate, Cadiz, Spain, July 19, 1887.

## [Inclosure No. 1.]

To his Excellency the Minister of Finance:

We, the undersigned, directors of the Salt Grower's Association, for ourselves and the salt-producers of this coast, respectfully address your excellency in behalf of a modification in the value of foreign salt in order to adapt it to the duty fixed under section 85 of the tariff in force.

This for treaty nations, of 54 centimos of a peseta for a quintal metrico, is a figure undoubtedly very low, considering that the article is included among those which pay an extraordinary tax, and that the value of quintal metrico, on whatever frontier,

ought to be estimated at more than six pesetas.

If this defect has not hitherto been felt, it is owing to the special nature of the article. Its relative slight value, compared with its weight and volume, makes the intermediate transportation an important factor in its valuation and renders its carriage difficult without additional charge. But there is a country producing it where e ceptional conditions are found, and such is the neighboring Kingdom of Portugal. An integral part of the Iberian Peninsula, and equal to Spain in its productions, with its railroad lines facilitating it, its salt has inundated the neighboring provinces, taking advantage of a tax almost nominal.

Although this evil has ceased with the expiration of the treaty of 1888, it may recur if that is renewed, and to avoid this, and without prejudging the negotiations for said renewal, that it may favor the national salt industry, we request your excellency to arrange a rectification of the value fixed on foreign salt for payment of

duties that may be in harmony with Article 7 of the law of July 1, 1869.

## [Inclosure No. 2.]

His Excellency the Minister of State:

The undersigned, directors of the Salt Growers' Association, for themselves and in the name of all the salt-producers of this coast, respectfully call your attention to the damage which the competition of Portuguese salt has for some time past inflicted on this industry in the provinces of Castile and Estremadura, on the borders of that Kingdom.

Taking advantage of its proximity, the construction of new railroads and the small duty imposed on foreign salt under the second column of the customs tariff, Portuguese salt has substantially driven out Spanish salt from those provinces.

This is no place to discuss the doctrines maintained by opposing economical schools upon custom-house duties, but it being undisputed that the tariffs to-day in force are founded upon the principle of protection to the industries of the country, this protection, to be just, ought to extend to all; since, otherwise, those deprived of it will pay a higher price upon consumption than those protected, and will clearly become victims of foreign competition.

Section 83 of the tariff in force imposes, under the second column, a tax of 54 centimos of a peseta (10‡ cents) upon each quintal metrico of foreign salt. This, in fact, admits an error of valuation, since it includes salt among articles subject to an "extraordinary tax," and 6 pesetas or more being the value of a quintal of salt in

Estremadura and Castile, the charge, even with treaty nations, ought to be very

much larger, according to the law of July 1, 1869.

circumstances demand special conditions for certain articles.

In this extremity the undersigned have also addressed the minister of finance, asking for a just rectification of values, but having negotiations pending with Portugal for the renewal of the treaty terminated, they esteem it of the greatest importance to submit to the consideration of your excellency the situation which confronts them, in order that the terms of the new treaty may prudently protect the interests of Spanish salt-producers. Nor are these alone interested in this subject, but the railroads and the coasting trade, as the marine salt of the country has heretofore been sent to northern ports, and from there distributed to neighboring provinces.

If the effects of this very small tax have not been felt before, it is owing to the special nature of the article, whose small value, compared with its relative weight and volume, renders it almost impossible to bring it from foreign countries without an additional charge for transportation, which raises the price. But Portugal is an exception. A separate political division, it is yet a province of the Iberian Peninsula in all that relates to production, highways, and commercial routes, and these

We therefore pray your excellency that in the negotiation of the new treaty with Portugal there may be provided a duty on salt sufficient to protect this national

product from ruinous competition.

# PRICES OF FOOD IN HESSE.

# REPORT OF COMMERCIAL AGENT SMITH.

I herewith transmit to you a statement showing the average prices of the leading articles of food in the Grand Duchy of Hesse during the months of October, November, and December, 1886, and January, February, and March, 1887, compared with the average prices during the corresponding months of the preceding year, which statistics have been published by the Hessian Government:

[Price per 100 kflograms=22013 pounds avoirdupois.]

	October. Noven		mber.	mber. December.		January.		February.		March.		
Articles.	1886.	1885.	1886.	1885.	1886.	1885.	1887.	1886.	1887.	1886.	1887.	1886.
Wheat Rye Barley Potatoes Peas Beans	8.45	\$4.15 8.68 8.64 .88 6.72 6.76	\$4.18 8.46 3.69 1.15 6.94 6.68	\$4.12 8.59 8.61 .86 6.68 6.68	\$4.16 8.45 8.66 1.14 6.36 6.59	\$4.10 8.56 8.58 .87 6.65 6.55	\$4.24 8.46 8.71 1.18 6.28 6.19	\$4.12 8.55 8.56 .91 6.64 6.60	\$4.81 8.47 8.67 1.21 6.16 6.88	\$4.12 8.54 8.52 .98 6.50 6.52	\$4.82 8.47 8.68 1.21 6.11 6.88	\$4.22 8.59 8.58 .98 6.81 6.41

The following articles brought, per kilogram (that is, a little more than 2½ pounds avoirdupois):

	Octo	ber.	Nove	mber.	Dece	mber.	Janı	uary.	Febr	uary.	Ma	rch.
Articles.	1886.	1885.	1886.	1885.	1886.	1885.	1867.	1886.	1887.	1886.	1887.	1886.
Beef	31 26	81.6 26.1	31 26	81.4 25.7	80,7 26	31.6 24.7	31   25. 7	cents.   81.4   25.2	30.7 25.5	81.1 25.2	80.2 25.7	30.9 24.9
Mutton Pork Wheat-flour Rye flour	27.8 8.6 6.2	26.4 27.8 9 6.6	25 27.8 8.6 6.2	25.7 27.6 9.2 6.6	25.2 27.8 8.6 6	25.7 27 9 6.6	25.7 27.6 8.6 6.2	25.7 27.6 9 6.6	26 27.8 8.5 6.2	26.8 27.6 9 6.6	26 27.6 8.5 6.2	26.0 27.0 9 6.0
Rye breadButterBurnt coffee (in the bean).	44.5	5.4 47.8 67.8	5.5 45.7 65.7	5. 4 46. 4 67. 1	5.2 47.6 67.6	5.4 48.5 67.1	5.5 42.6 67.5	5. 4 42.6 67. 3	5.2 41.6 67.6	5. 4 42. 6 67. 5	5. 2 43. 6 67. 6	5. 43. 66.

Eggs brought about a cent and a half a piece, and milk cost 4 cents

a liter (a little more than a quart).

Petroleum cost 5.2 cents a liter from October, 1886, to April, 1887, or about the same as the corresponding period from October, 1885, to April, 1886. Coal brings regularly about 42 cents per 100 kilograms.

Oats, hay, and straw commanded the following prices per 100

kilograms:

Antinlan	October.		Nove	November.		December.		January.		February.		March.	
Articles.	1886.	1885.	1886.	1885.	1886.	1885.	1887.	1886.	1867.	1886.	1887.	1886.	
Oats	\$3.10 1.32 1.05	\$3.29 1.42 .97	\$3.07 1.38 1.18	\$3, 29 1. 45 98	\$3.06 1.36 1.13	\$3.28 1.47 1.02	\$3.06 1.43 1.14	1.49	\$3.18 1.44 1.17	\$3.88 1.58 1.09	\$3.10 1.45 1.16	\$8.41 1.60 1.10	

The aforementioned articles brought the following average prices during the years 1886 and 1885, namely:

Articles.	1886.	1895.	Articles.	1886.	1885.
Wheat per 100 kilograms. Rye do Barley do Potatoes do Peas do Beans do Oats do Hay do Straw do Beef per kilogram Veal do		\$4. 82 8. 80 8. 91 1. 01 6. 83 6. 80 8. 57 1. 38 1. 02 .31. 6		. 26. 4 . 27. 6 . 88 . 64 . 05. 4 . 45 . 66 . 04 . 05. 2 . 41	.26.8 .27.1 .92 .66 .05.4 .41 .08 .04 .05.4

JAMES HENRY SMITH, Commercial Agent.

United States Commercial Agency, Mayence, July 20, 1887.

# RICE STATISTICS.

REPORT OF CONSUL LOENING.

I send a report on rice and furnish official statistics of that article from January to July, during the past five years.

Shipment of rice to Europe.

	January	to July.	4007	1004	1000
From—	1887.	1886.	1885.	1884.	1888.
	Tons.	Tons.	Tons.	Tons. 382,080	Tons. 836, 500
Rangoon	298,000 155,200	286, 360 116, 250	287, 690 98, 620	82,280	104, 440
Bassein	112,400	146,890	143, 420	112, 620	149,78
Moulmain	89,900	43, 130	41,230	85,080	41,44
Calcutta	89,671	43, 895	84,081	83, 332	89,07
Madras	<b>. 8,</b> 600	180		7,801	18,50
saigon	33		19,442	57,829	1,60
Bangkok	4,400		7,406	18,834	
Bombay		591	2,724	520	
Sava	4, 120	1,800	8,030	600	1,08
apan	22, 227	23, 212	5,850	44, 295	5,87
Total	679,560	662, 288	642,963	719,621	808, 25

The arrivals (receipts) of rice in Europe from January 1 to July 21-26, inclusive, in the following years, was, viz:

*Ports or countries.	1887.	1886.	1885.	1884.	1688.
	Tons.	Tons.	Tons.	Tons.	Tons.
London		88, 762	66,058	78,676	100,727
Liverpool	41,028	74,587	56,729	74.812	60,871
Bremen.	101,586	71,752	98, 181	78,785	67,979
Hamburg.		31,787	27, 828	27, 162	19, 122
Holland	58,672	60,789	55,756	64, 461	50, 294
Belgium	84,700	28,970	29, 290	28,600	88,958
Copenhagen	10,082	5.724	5,094	12, 898	10, 458
Flensburg	5,442	7, 122	6, 764	6, 122	8, 115
France	20, 224	16,799	19, 691	20,781	47, 782
Italy		27, 404	82,895	75,601	51,255
Trieste and Fiume	10,866	14.560	15, 927	15, 561	10, 584
Odessa			1,740	1,758	1,720
Turkey		1,010	2,120	1,880	1,449
			!		
Total	428, 847	424,785	410,458	480, 942	464, 314

Cargoes of rice loading in Burmah, East Indian ports, for Europe on July 23 to 25, in 1887, 19,000 tons; 1886, 13,000 tons; in 1885, 19,500 tons.

Floating cargoes of rice from East India and other ports on July 21-26.

Ports.	1887.	1886.	1885.	1884.	1888.
Calcutta Madras Akyab Rangoon Bassein Moulmain	1,998 57,474 114,814 47,743 1,188	Tons. 2,250 80 51,470 116,067 78,584 5,926	Tons. 2, 689 84, 184 118, 924 57, 242 5, 881	Tons. 2,770 1,689 28,287 124,017 48,777 5,278	Tons. 15, 108 8, 660 82, 724 166, 667 67, 058 5, 535
Java Saigon Bangkok Japan	• • • • • • • • • • • • • • • • • • • •		1,200 750	10, 448 1, 697 6, 850	650 1,060 4,275

Bremen's import of raw rice from January 1 to July 31 was, in 1887, 104,666 tons; 1886, 82,668 tons; 1885, 102,101 tons.

England's export of rice, cleaned, table and broken, was, from January 1 to July 19-21, in 1887, 67,851 tons; 1886, 91,676 tons; 1885, 88,000 tons. Stock on hand in England, July 25-30, in 1887, 45,999 tons, including 7,610 tons raw rice; 1886, 61,711 tons, including 15,680 tons raw rice; 1885, 63,191 tons, including 29,690 tons raw rice.\*

Price of raw rice, July ultimo, in the past ten years (per sailing vessel), per cwt., cost, freight, and insurance to Bremen.

Year.	Rangoon.	Akyab.	Bassein.	Moulmain.	Year.	Rangoon.	Akyab.	Bassein.	Moulmain.
1887 1886 1885 1884 1888	s. d. 6 74 6 3 6 104 7 104 7 9	s. d. 6 8 6 51 6 9 7 6 7 3	8. d. 6 74 5 104 6 104 7 9 7 6	s. d. 7 11 6 9 7 9 7 9	1882 1881 1880 1879	s. d. 7 11 8 41 9 6 9 6	#. d. 7 0 8 0 8 9 9 0 9 14	8. d. 7 01 8 11 9 8 9 8 9 7	s. d. 7 8 8 44 9 0 9 0 9 9

<sup>&</sup>quot;Not in millers' hands.

The price of polished Rangoon rice (white) in the Bremen market, July ultimo, during the past ten years was, viz:

[Per 50 kilograms net.]

Year.	Ff.table.	f. table.	Middle.	Shorts or broken oo	Broken o.	Year.	Fr. C	f. table.	Middle.	Shorts or broken 00.	Broken o.
1887 1886 1885 1884	Marks. 10.25 11.00 10.73 11.00 11.75	Marks. 9.50 10.00 9.75 10.25 10.25	Marks. 8.75 8.75 8.75 9.60 9.50	Marks. 8. 10 7. 75 8. 25 9. 00 8. 90	Marks. 7.25 7.40 8.10 8.40 8.50	1882 1881 1880 1879 1878	Marks. 11.50 18.00 18.50	Marks, 10.00 12.25 18.00 18.75 18.25	Marks. 9.25 11.25 12.25 12.25 12.75	Marks. 8.50 10.00 11.50 11.25 12.25	Marks. 7.85 8.90 10.00 10.00 11.70

The prices of broken rice of inferior quality or smaller grains ranges from 6 marks to 7 marks per 50 kilograms. This broken rice (the result of cleaning and sifting) is sometimes submitted again to a crushing process, so as to bring it down to the required size of grain for export to the United States as "granulated rice," paying a duty of 20 per cent. ad valorem.

It is only since the Treasury Department's recent decision setting a standard for so-called granulated rice, that this has been done, and it makes the article a trifle more expensive; it is also mixed with the

ordinary broken rice.

The rice crop this year in Rangoon, Bassein, and Akyab are good, and the rice in Rangoon, and especially Bassein, of superior quality. In Akyab the quality of the rice is inferior.

ALBERT LOENING, Consul.

United States Consulate, Bremen, July 30, 1887.

# MINING IN THE PROVINCE OF LIEGE.

#### REPORT OF CONSUL PRESTON.

There are 37 metallic mines in the province of Liege; of these only 5 were in active operation in the year 1886. There were 7 steam-engines in use, with 174 horse-power, for the extraction of metal, and 18 engines, of 1,782 horse-power, for drainage and exhaustion. The number of workmen employed was 582 in the interior of the mines and 418 on the surface; in all, 960.

The production was as follows:

Description.	Quantities.	Value.
ron	Tons. 60,061 662	Francs. 442,764 78,844
ron	12 418	<b>28</b> 1, 150 620, 440
Pyrites	2,709 750	25, 89 .00
Total		1, 808, 08

The amount of wages paid was 631,570 francs; other expenses 476,820 francs; total expenses of the mines, 1,108,390 francs.

The production of iron was 14,535 tons less than in 1885; that of lead 333 tons more; that of zinc 687 tons more; that of pyrites 1,034

tons less, and that of manganese 750 tons more.

The Société Nouvelle Montagne has been successful in the mine Mallieue. This is the most productive mine in the province; the only one, in fact, besides the iron mines, which gives much promise for the future. The société has not attempted to increase the production, which remains the same as in 1885, viz: about 12,000 tons of blende and 500 tons of pyrites and black-lead.

There has been a falling off in the production of iron ore, partly on account of the low prices and an increase in the production of lead and zinc. The financial results have been generally satisfactory. The average annual wages of workmen is 658 francs, 100 francs less than in the preceding year. This is accounted for by the greater proportion of employes on the surface being women and children, employed in the preparation would be appreciately appreciate

in the preparatory workshops.

#### METALLURGIC INDUSTRY.

The difficulties of the situation of this industry became greater in 1886 than in the preceding year. The production kept up, but the value of it suffered considerable reduction. An agreement entered into by the owners of the furnaces in 1886 stopped the decline of prices of sheet-iron. Several of them were accustomed to manufacture (as well for home consumption as for export) products of superior quality, which found relatively an easy and remunerative sale, by reason of the reputation their trade-marks had established. But the competition of the Germans has been too much for them, and the latter have succeeded in controlling the market. In consequence of this the manufacturers, for lack of orders and to keep their workmen employed, resorted to producing poorer qualities, which they could sell at less price. This partly explains the diminution in the value of the products of the founderies.

As for the steel factories, in spite of considerable increase in production, the value declined, but this only occurred in those factories that were obliged to put down their prices to meet foreign competi-

tion.

Towards the end of the year 1886 important orders from the United States gave impulsion to the iron industry, but it seemed to be tem-

porary, and unless it continues their difficulties will return,

The formation of an international syndicate of zinc manufacturers resulted in limiting the production of this metal, but they did not accomplish all the results they anticipated from this measure; prices only slightly increased, and the consumption decreased in consequence of the low price of lead, to which zinc had been preferred for most uses.

#### MANUFACTORIES OF IRON.

The following table gives the number of furnaces, consumption, working, and production:

Number of blast furnaces:	
In activity	11
Inactive	5
Average number of work days per furnaces	365
Motors:	
Including focomotives	55
Horse-power	1.970
Number of workmen employed	962
Average salary of workmen per day	2,67

#### Consumption.

Belgian	tons	75, 884
Foreign	do	405, 880
Iron and grape-shot	do	49,596
Castine	do	107, 124
Combustibles:		-
Coke	do	255,766
Coal	do	7, 934

#### Production.

Affinage cast, including manganese	<i>Tons.</i> 98, 901 147, 837	Francs. 3, 892, 380 7, 998, 365
Total production	284, 538	11,890,745

Of the 15 blast furnaces in the province only 11 were in active operation in 1886; but these continued throughout the year. The total production was fully equal to that of the year preceding.

As the manufacturers would not give the relative proportion of

Bessemer and Thomas steel, I am unable to indicate it.

The consumption of cast-iron, of Belgian, working, in the steel factories of this province amounted in 1886 to over 10,000 tons.

The following table gives the minerals consumed and the countries from which they were taken:

Commentes	Minerals co	Minerals consumed.	
Countries.	1885.	1886,	
Belgium Grand Duchy of Luxembourg Germany France Spain and Algeria Russia Others not mentioned, imported at Antwerp and Rotterdam	Tons. 102,108 157,896 6,142 16,965 149,511	Tons. 75, 884 166, 085 3, 896 24, 977 171, 765 3, 976 35, 161	
Total foreign	865,784	405, 860	
Total consumption	467,842	481,744	

# MANUFACTORIES FOR WORKING IRON.

The number of factories for the production of steel has increased; there are now 10 of these, besides 2 (those of Cockerill and Fabrique de fer d'Ougreé) which possess their own founderies of this metal; the production is said to be about 2,000 tons, half of which were sheet and wire.

There are 27 factories in all for working iron, employing 288 steam motors of 7,362 horse-power and 4,961 workmen, whose average daily wages are 2.95 francs each.

The total production of the 27 factories was 2,286 tons more than in the preceding year, being 119,339 tons of a value of 16,312,361 francs.

# MANUFACTORIES FOR WORKING STEEL.

The production of the steel factories increased in 1886, but the decline in price gave unfavorable results. The number of engines employed was 128, of 5,561 horse-power.

The number of workmen employed was 1,998, at the mean average

wages of 3 francs 37 centimes per day.

The total consumption of coal in these shops was 115,548 tons.

The production of steel in the foundries and rolling mills exclusively occupied in working their own production was, in cast ingots, 127,735 tons; of hammered steel, 8,876 tons; the total value of which was 10,638,898 francs.

The production of steel of all kinds, sheets, bands, rails, wire, etc., in the mixed factories was 114,918 tons, of a value of 13,366,239 francs.

#### DIVERS MANUFACTORIES.

Lead.—There are in this province two factories of lead in active operation, 16 furnaces for reduction, with 16 steam and hydraulic engines of 146 horse-power, employing 400 workmen, at the average wages of 2 francs, 72 centimes per day.

Of the ore consumed, 1,352 tons are Belgian production and 11,246 tons of foreign. The production of these factories are, of lead, 8,665 tons, of the value of 2,485,500 francs; and of silver, 14,757 kilograms,

of the value of 2,454,504 francs.

Foundries of zinc.—There are 10 manufactories of zinc in active operation, with 276 furnaces of reduction and 22,450 crucibles. There are 62 steam and hydraulic motors of 1,191 horse-power.

The number of workmen employed is 3,605, at the average wages

of 3.13 francs per day.

Of the ore consumed, 18,277 tons is of Belgian production and

177,394 tons foreign.

The amount of coal used in the machines is 398,616 tons. The production of rough zinc is 79,246 tons, of the value of 339.60 francs

per ton, a total of 26,911,789 francs.

The production of gross zinc has diminished 1,052 tons, the result of an agreement among the zinc producers of Europe to limit their production. The following table gives the amount of ore used here and the countries from which it is imported:

Countries.	Quantity.	Countries.	Quantity.
Sardinia Italy Greece	51,070 14,119	America	Tons. 202 788 423
Spain	25, 824	Total foreign	177,894
Germany. France and Algeria. England	<b>28</b> , 691	Belgium	18,277

There are 10 manufactories in active operation to work the zinc, with 27 rolling trains, 27 steam and hydraulic motors of 1,008 horse-power. Four hundred and forty-one workmen are employed, at the average wages of 3.29 francs per day.

The consumption of coal is 14,421 tons; of gross zinc, 29,136 tons; and old zinc clipping, 320 tons. The production is 28,719 tons of

sheet zinc, of the total value of 11,404,298 francs.

## STONE QUARRIES.

The number of quarries is 297, with 5 steam-engines of 49 horse-power. Four thousand one hundred and forty-three workmen and 215 horses are employed.

The value of the production is 4,731,480 francs.

The value extracted is 481,035 francs less than in 1885, principally in paving stones.

The following table gives the quantities of the various extractions

of the quarries with their value:

Decription.	Quantities.	Value.
Paving stones.  Calcareous freestone.  Lime, rag stone, pebbles.  Castine (cobble-stone).  Plastic clay.  Other products, tiles, chalk, gravel, flints, and dolomite.	875,835   88,900   84,3	Francs. 1,018,560 2,002,375 1,874,635 33,253 8,023 204,635
Total value		4,781,480

WM. S. PRESTON,
Consul.

United States Consulate, Verviers and Liege, September 8, 1887.

# SILVER MINING IN THE BARRIER RANGES, NEW SOUTH WALES.

TRANSMITTED BY COMMERCIAL AGENT THOMAS M. DAWSON.

[Extract from the Sydney Mail, Saturday, August 20, 1887.]

The visit of the minister for mines and the minister for justice to the Barrier Ranges will probably be instrumental in attracting the attention of those who now guide the destinies of the colony to the enormous wealth which, drawn from the bowels of the earth, is slipping away steadily and surely from our grasp, and passing into the hands of those whose interests are opposed to ours. The Broken Hill Proprietary Company's claim is the great center upon which the hidden treasure is developed. Its story is an interesting one. A game of euchre for one-fourteenth of the mine was played, and although a full share did not represent the stake, the then value of that share depended on the result of the game—depended, indeed, on one man holding more trumps than his opponent. The scene occurred at Mount Gipps homestead one night about three years ago, when Mr. McCulloch, the manager, and Mr. Cox, an employé on the station, played euchre to decide whether the latter should give the former £150 or £120 for a fourteenth share in the Broken Hill mines, which were just then being prospected. Mr. Cox won, and has since had reason to bless the genius of the man who, to please his royal master, the mad King of France, invented a pack of cards. Monte Carlo has been the scene of many a huge gambling transaction, but it is doubtful if ever the result of a single game equaled the present value (nearly £200,000) of the stake played for in the Mount Gipps homestead. Mr. Cox was not particularly anxious for the share, but with what different emotions would be and his opponent have dealt the cards had they known what would take place within such a short space of time.

The chances were a million to one that that game of euchre would never have been played. Four years ago boundary riders crossing the rugged surface of the Broken Hill little dreamed of the treasure lying hidden beneath, nor did they imagine for a moment that the metallic ring of their horses' hoofs on the ironstone rocks was only a prelude to the ring of hundreds of hammers and picks and the steady roar of furnaces. Broken Hill then formed a portion of Mount Gipps station, the homestead of which was distant some 12 miles. The discovery of silver at Thackaringa and Umberumberka led every one on the Barrier Ranges to take more or less interest in silver mining, and particular attention was paid to country possessing the slightest mineral characteristics. Towards the end of September, 1883, a boundary rider on Mount Gipps Run, named Charles Rasp, while mustering sheep in the vicinity of Broken Hill, was attracted by its mineral appearance and formation. Mentioning the matter to Mr. George McCulloch, manager and part owner of the station, it was decided to peg out Broken Hill, in the expectation of discovering a tin mine—the existence of silver not being then thought of. McCulloch and Rasp

took up the whole of Broken Hill, which in the aboriginal language is known as Wilyu-wilyu-yong; the ground being applied for in the names of George McCulloch, G. A. M. Lind, and George Urquhart, the two latter being, respectively, storekeeper and overseer on Mount Gipps Run. In all seven blocks, or a total of 2 miles, were secured on the line of reef. A syndicate, under the title of the Broken Hill Mining Company, was formed, Messrs. G. McCulloch, Phillip Charley, Lind, David James, G. Urquhart, C. Rasp, and James Poole holding shares in equal proportions. After several months' prospecting had been done with little success, Messrs. Lind and Urquhart sold out, and the syndicate shortly after was merged into a company of fourteen shares. This company, on August 12, 1885, was formed into "The Broken Hill Proprietary Company, limited," of 16,000 shares, 2,000 being issued to the public at £9 each, paid up to £19, while the remaining 14,000 shares, paid up also to £19, were retained by the shareholders. The actual expenditure previous to the mine becoming self-supporting was about £4,000, and such has been its extraordinary success since that at the current price per share, viz, £140, the present value of this great Comstock of Australia is £2,240,000. To this, however, must be added the market value—half a million sterling—of block 14, which has been distributed among the shareholders, while blocks 15 and 16 are both to be floated into a company at an early date. Of the first syndicate of seven there are only Messrs. McCulloch, Rasp, James, and Charley who hold shares in the present company. In that originally formed the fourteen shareholders were Messrs. W. Jam'eson, W. C. Dalglish, Solomon Wiseman, C. Rasp, K. E. Brodribb, Bowes Kelly, E. Thomson, David James, W. R. Wilson, James Poole, A. W. Cox, G. McCulloch, and P. Charley. The present directors of the company are Messrs. W. Macgregor (chairman), G. Mc-Culloch, W. R. Wilson, D. E. McBryde, K. E. Brodribb, Bowes Kelly, and D. W. Harvey Patterson; and the local committee, Messrs. McCulloch, Kelly, Brodribb, Reid, and Sully. Mr. W. Knox is secretary of the company, the head office being in Queen street, Melbourne. A mine in which nearly 700 hands are employed and from £1,800 to £2,000 paid away weekly in wages necessarily requires experienced supervision. Those upon whom the greatest responsibility lies are Mr. S. R. Wilson, general manager; Mr. Richard Piper, mining manager—the genial Mr. Piper who chaperoned the ministers through the labyrinthian windings of the underground works—and Mr. H. H. Schlapp, metallurgist and smelter. Mr. J. C. Clark is accountant, and Messrs. Jobson, Pogue, and Savage, assayers. In the mining department including miners, ore classifiers, timber men, engine-drivers, carpenters, saw-mill hands, horse-drivers, and laborers—full 420 men and boys are employed. At the smelters there are 150 more, and with 110 general construction and knockabout hands, a total of 680 is reached. This number, however, varies according to the amount of contract work on hand, but it rarely falls below 650. About the end of 1884 carbonate of lead and iron of low grade were discovered on the surface of the Broken Hill, and this led to the sinking of what is now known as Rasp's shaft. Chlorides were shortly afterwards found in surface ironstone on the spot where Brodribb's shaft has been sunk, and then came the discovery of rich kaolin ore in the vicinity of Knox's shaft. To Harry Campbell, a black boy in the employ of Mr. Jamieson, a surveyor, is due the credit of having first brought the kaolin to light. Detecting the presence of silver in some stone he picked up, the black fellow handed it to Mr. Jamieson, who soon after discovered its true value. Here it may be remarked that kaolin is decomposed felspar—in other words, a sort of porcelain or China clay, in which silver was previously seldom known to exist. Vast deposits of kaolin are to be found in Cornwall and in many of the American mines, but it was not until Mr. W. R. Wilson, one of the directors of the Broken Hill Company, took specimens to America last year that the presence of rich silver in kaolin gained any credence. Prospecting is now being done in many of the largest mines with a view of proving the existence or otherwise of silver in the kaolin porcelain clay.

At the 100-foot level in Rasp's shaft a plat or chamber was cut, and by cross-cutting the lode was found to be 14 feet in width, and composed chiefly of iron, with a small percentage of carbonate of lead, assays showing that silver existed in barely payable quantities. After driving 49 feet north and 90 feet south, sinking was resumed to the 150-foot level, where the lode to a width of 21 feet carried carbonate of lead to a greater degree than in the upper level, and was consequently of a more remunerative character. Ninety-four tests gave an average of over 90 ounces of silver per ton. Drives were extended north and south from the level, and at the 212-foot level the lode was again struck, its width here being 20 and 80 feet. With cross-cutting and driving, the lode proved to be immensely rich, 45 assays averaging 300 ounces of silver per ton. Cross-cuts about 50 feet apart were put in across the lode, the drive extending to nearly 300 feet. Here blocking out was commenced, the whole of the lode between the hanging-wall and the footwall being removed in sections, and the space filled in and secured with strong timber. At the same time passes or shoots were left as a means of obtaining the stuff from the slopes above

by gravitation. These back or overhand stopes have been worked for fully twelve months, and are now yielding ore in bulk estimated to assay about 60 ounces of silver to the ton. The ore is of a free smelting nature, containing sufficient carbonate of lead, iron, and manganese to admit of easy treatment and little trouble in fluxing. The present depth of Rasp's shaft is 278 feet, at which level a chamber has been opened out, and cross-cut put in a 34-foot lode. The latter consists of galena, carbonate of lead, a sprinkling of zinc blend, known to miners as black-jack, and a small portion of garnet sandstone. Bulk assays of the lode stuff gave 36 ounces of silver per ton and 42 per cent. of lead. This is regarded as a fair return, but better results are anticipated with deeper sinking, the lode being now in a transition state, or, in mining parlance, "between wind and water." At the last-mentioned level a gradual change that is taking place in the lode was pointed out to me, the carbonate and the sulphide ore being beautifully blended, but the latter having a decided preponderance. Operations were suspended in this level for some weeks, in order to ascertain whether silver existed in the galena or in the zinc blendê, the latter being a base metal and apparently difficult of treatment. Experiments made, however, within the past few days indicate that silver in payable quantities exists in the galena, and that by a simple process of concentration the zinc blende can be got rid of with a slight loss of silver, after which the easy and profitable treatment of the galena becomes a mere matter of detail. Rasp's shaft is 6 feet by 4 feet, within timber, and has only one cage-road, close divided from the ladderroad, on which the men descend and ascend. The footway is put in at an easy angle, sollars or platforms of wood being constructed at the end of every 80-foot ladder, so that should the person descending lose his hold, the fall would be broken by the platform. The winding appliances consist of an 8 horse-power Tangye engine; but as soon as this is worked up to its fullest capacity it will be replaced by a more powerful plant.

From the 150-foot level in Rasp's shaft a level extends 285 feet north in close proximity to the boundary of block 14, and here high-class massive lead ore has been obtained. Twenty feet above this level No. 1 tunnel extends from the base of the hill 125 feet below Rasp's brace. This tunnel runs through country rock, or dead ground, for 410 feet, at which point the lode was tapped. The latter proved 182 feet wide, 60 feet being payable lead and silver, 40 feet iron and manganese, and the re-

mainder composed of highly silicious matter.

No. 1 air shaft lies about 50 yards south of Rasp's, and is sunk to the 212-foot level, through carbonate of lead ore, rich in lead, but with a small percentage of silver. Farther still to the south is McCulloch's shaft, 10 feet by 4 feet, clear of timber, and sunk to a depth of \$30 feet, with drives at 150, 216, and \$15 foot levels. At the first-mentioned level the lode, composed of silicious iron, gossan, and carbonate of lead, showed up 70 feet in width. The north drive communicates with No. 1 tunnel and No. 1 air shaft in Rasp's. Between the latter and McCulloch's shaft some good ore has been obtained, this being treated by furnace as it comes direct from the shaft. At a level of 216 feet the carbonate of lead ore forms a lode 108 feet wide. The bulk of the ore is forwarded direct to the furnaces; but in this, as in other champion lodes, there are bands or seams of silicious matter which require treatment by concentration.

A drive extending north, to communicate with Rasp's shaft on the course of the lode, passes through immense bodies of intrusive rock, one of which is 32 feet and another 140 feet long. In the vicinity of these rocks, of such richness was the lode that assays gave from 40 to 400 ounces of silver per ton. Both the southern drives run 400 feet on the hanging-wall and the foot-wall, respectively, the lode being so large that working by one drive was next to an impossibility. Carbonate of lead ore, with occasional patches of quartz and garnet sandstone and very rich pockets of chlorides, constitute the stuff passed through so far. The whole block of 108 feet is estimated to yield at the rate of 40 ounces of silver and 40 per cent. of lead. By opening out at the lowest level 316 feet, it was anticipated that the lode would be cut to the east after driving 15 or 20 feet; but owing to the singular formation of the ground, the intrusive rock before-mentioned coming in and leaving it far in an easterly direction, a distance of 110 feet had to be driven before striking the lode. The latter, at this point, consists of silicious galena and quartz, mixed with iron and copper pyrites. Barely 40 ounces of silver and slightly over 40 per cent. of lead was extracted from the galena, while assays from the quartz gave a return of 12 pennyweights of gold per ton. In this level I was shown the spot from which a large block of country rock had been removed to make room for a steam compound duplex condensing pumping plant, equal to raising 24,000 gallons per hour at a height of 500 feet. This has been supplied by Messrs. Parke and Lacy, of Sydney and San Francisco, and is expected on the ground daily. Following on the erection of the plant, sinking, which ceased six months ago owing to a strong influx of water, will be resumed. When the lode was cut at the 316-foot level, the rush of water

was so strong that the men were driven from the faces, and it took a week's baling, with tanks of 200 gallons capacity, at the rate of 40 tanks per hour, to get the water under.

In connection with the shaft are three compartments—two for winding and one for pumping, the latter having a complete ladder way. The shaft is also close-timbered in a most substantial manner. Huge poppet-heads, 50 feet high, tower above the mouth of the shaft; and here also are to be noticed Tangye's two 9-inch

cylinders and drums, etc., combined, forming a very complete plant.

Threading our way along a roomy drive for about 170 yards south, we reached No. 2 air-shaft, which is down 196 feet. Extremely silicious ore has been found in nearly the whole of the intervening country, and this ore is now being stacked, with a view to treatment when proper appliances are at hand. In a few days the connection will be complete between No. 2 tunnel and the 216-foot level in McCulloch's shaft. The central portion of this great mine will then be thoroughly ventilated, No. 2 tunnel being put in from the base of the hill, 120 feet south of the shaft and 195 feet below the cap of the outcrop. The lode in the tunnel runs 60 feet wide, is of silicious iron and gossan, and was cut after driving 506 feet. Levels have been driven north and south for a considerable distance. That on the north is yielding low-grade carbonate ore, but the south drive, after having remained idle for some time, is shortly to be pushed on to communicate with North Patterson's shaft, 280 feet farther south. This latter by competent authorities is considered to be the best engine shaft on the Barrier silver-field. It is 18 by 5 feet in the clear, well-timbered, and divided into three compartments for winding and pumping, and is sunk 140 feet in the foot-wall country. A couple of 32 horse-power direct-acting, spider-gear winding engines have been ordered from Messrs. Tangye, and preparations are being made for their erection within the next few days.

- Brodribb's shaft, situated slightly to the southwest of McCulloch's, is down 800 feet. Two drives extend north from the 66-foot level, one being 270 feet on the foot-wall, and the other 240 foot on the hanging-wall. A connection by means of cross-cuts has demonstrated the fact of the lode being fully 60 feet in width, and from this iron ore, not only payable as regards silver, but acting also as a flux for other ores, has been raised. The southern drive on the hanging-wall opens out to the brace of Jamieson's shaft, owing to a dip in the surface, while the foot-wall drive, from which patches of payable ore have been extracted, runs 100 feet to the south. High-class iron ore of a silicious character has been taken from the drive extending 121 feet north from the 132-foot level; and in the south drive, running to Jamieson's shaft at the 76-foot level, patches of rather low-grade ore have also been exposed.

The shaft is being enlarged for the purpose of erecting more powerful winding machinery, only a small steam winch or donkey-engine and buckets representing the machinery used at present for hoisting the lode stuff. Some distance to the north rises a magnificent outcrop of manganic iron, about 60 tons of which is used daily for fluxing purposes. Going back to the southern course of the lode we come to Jamieson's shaft, 310 feet from Brodribb's, and down 225 feet. At the first level of 76 feet the lode—composed of kaolin and iron ore, low in silver, but answering admirably as a flux—proved to be 66 feet wide. Communicatiors were opened up on the hanging-wall with Knox's shaft, while on the foot-wall portion a rise was put up, which yielded large quantities of excessively rich chlorides of silver. Some of this assayed up to 9,000 ounces, and the whole averaged over 700 ounces per ton.

Extending south, at the 142-foot level, are two drives, from which considerable quantities of valuable kaolin and iron ore have been taken, and two stopes worked

in the back are giving, I was informed, 150 ounces of silver per ton.

Descending to the 208-foot level, I found that the lode here was 108 feet in width, or slightly larger than at the previous level, the character of the ore varying in a most extraordinary degree. At one point was to be seen quartz charged with chlorobromide of silver, next came a deposit of iron and manganese, then followed masses

of kaolin ore, the whole being of a highly payable character.

Four feet below the level above mentioned the water-line was struck, and underneath this again silver has been raised in the form of chloro-bromide. This fact has tended to upset the theory of mining experts and scientists that chloride of silver does not exist below water-mark. In the opposite direction also a hard and fast rule has been swept away, sulphides having been found above the water line. It is a matter for regret that during the past week the flow of water, amounting to between 80,000 and 90,000 gallons per diem, should have been so strong as to stop all work in the shaft. The present pumping plant is not sufficiently powerful to keep the water down, and until more powerful machinery is erected the overflow can not be checked. What with this and an accumulation of ore, both at surface and underground, together with necessary alterations in the brace, etc., preparatory to the starting of the new winding plant, between 25 and 80 men will have to remain idle for fully a fortnight.

Some distance on the level towards Brodribb's shaft the formation is of quartz and garnet sandstone. This, owing to the preponderance of silica, can not be treated by smelting direct, so the probabilities are that the company will have to resort to amalgamation, on the system pursued in the treatment of gold. Massive poppetheads and powerful winding gear, etc., erected on this shaft, give a throughly substantial tone to the surface improvements.

Knox's shaft, used for ventilation and as a ladder-way for the miners, lies 200 feet south of Jamieson's. As the result of stoping in the back of 66-foot level, remarkably rich kaolin ore has been extracted, and, judging from appearances, I should say that thousands of tons still remain waiting for the pick, shovel, and powder to detach them, and the cage to bring them to the surface. Very little has been done at the 182-foot level, but on the lowest, of 208 feet, cross-cuts indicate that the lode is

fully 150 feet wide.

Barely 60 yards beyond Knox's shaft stands No.5 shaft, sunk through iron and kaolin ore to a depth of 60 feet. Work ceased here fifteen months since, the efforts of the company having been directed to the development of the northern portion of their blocks. The company's property extends nearly half a mile south from No.5 shaft, and in this direction some good iron-ore, which as a flux can not be excelled, has been exposed all along the surface.

The steady roar of the furnaces is to be heard day and night, Sundays and week days. When darkness sets in their red eyes gleam brightly out and illumine the greater part of the hillside, showing the moving figures of the workmen clearly

outlined against the somber background of rock and shrub.

But though the smelter, which is under the experienced management of Mr. Schlapp, works continuously, underground operations are confined to the period between midnight and Sunday and 11.30 p. m. on the following Saturday. As far as practicable all work is done on the contract system, the contractors taking all risks as regards health, accidents, etc. With the weekly wages men the case is different. Many of these work in the "lead shoot," as the drives and tunnels where carbonate of lead predominates are termed, and consequently are subject to lead poisoning. In order to guard against the latter the miners are shifted every fortnight, but still many of them are seized with this more dangerous complaint, one from which recovery is both difficult and prolonged. Extreme cleanliness, temperance (particularly as regards al cohol and tobacco), purity of blood, and a diet of mlk and fats, are the only safeguards against lead poisoning, and these Dr. Seabroick, the experienced medical officer to the company, impresses in every possible way on the men working in the unhealthy atmosphere. Lead poisoning is sometimes brought on by miners cutting up tobacco and rubbing it with their hands while at work. The lead dust consequently becomes mixed with the tobacco, and is drawn into the lungs with every puff of the pipe. Thus the weed which nature intended, according to experts, as a solace to the nerves, acts as an agent to convey into the system an insidious poison. The general symptoms of being leaded are a slight bluish tinge or discoloration of the gums, an earthy pallor of the countenance, colic and constipation, great debility, and various symptoms of affection of the nervous system. An immediate removal from the cause, hot baths and generous diet, constitute, with special medical remedies, the treatment in early stages. The medical officer in charge of the mine has been fairly successful in his mode of dealing with lead poisoning. It may be mentioned here that many of the company's employes entertain the idea that they are leaded whilst in reality suffering from attacks of other complaints, such as colic, etc.; and some even, as the medical officer informs me, when wishing for a legitimate "call off" from work. The erection of hot-water baths has been recommended by Dr. Seabrook as one of the means to prevent lead poisoning. An accident fund now being started among the miners receives support from visitors to the claim.

Every one inspecting the underground workings is required to pay 5s. towards this fund, and indeed the trip below and through the drives and the information gained is cheap at double the money. Not that the visitor, inexperienced in silver mining, is much the wiser, from a practical point of view, for his trip below. He will soon become confused among the drives and stopes and tunnels, and will, after all, have but a hazy idea regarding the relative value and meaning of chlorides, galena, argentiferous ore, schist, kaolin, and the many other abstruse terms in silver mining. These are simply a perfect abracadabra to the inquisitive novice, who pesters the unfortunate guide with a hundred questions per minute, and who when everything is good-naturedly explained to him is none the wiser for the information. The better way is to look as wise as possible and say as little as possible. "Keep your arms well in to your sides and hold tight to the bar above," was the advice tendered to us by Mr. Richard Thomas, the obliging underground captain as, dressed in mining costume, we stepped into the cage. The signal was given, the engine snorted, the wheels revolved, and down we went, easily and noiselessly. At the first level our

exploration of the mine commenced. Candles were supplied us and, following our guide, we traversed drives and labyrinths hewn out of the solid stone, corning on knots of men hard at work with pick and gad in some places, and in others meeting the truckmen with loads of ore for the surface. As we descended and ascended in the cages and on ladders, we saw that the work everywhere was the same, and that everything was being carried out in a systematic manner. The phantasmagoria that exist below, the beautiful streams of silver glittering from every rock and crevice, the veins of ore miles and miles long, the lovely fairy-like caves, the enchanting grottos, and the elfin dells, which some visitors like to describe so graphically to their wondering friends, could not be found by our party. The only grotto, or rather fissure, we saw was one which we had cause to remember. This opened into one of the drives. The aperture was small, but the delicate crystalline stalactites hanging within looked far too tempting to be passed by. One of my companions, a well-built athletic Victorian squatter, essayed to enter and detach some of the stalactites. So did I, but after monkey, bear, and 'possum practice, and sundry bumps, scratches, and bruises, we both came to the conclusion that the rights of property should be respected, and that the Broken Hill Proprietary Company had a greater claim to those stalactites than we had. There is indeed little of the fairy-like, ethereal, or spirituelle associated with the underground workings. Everything done is like the rudder of a vessel, a stern necessity, and the men who. in cotton or flannel shirts and moleskin trousers, earn £3 per week by pick and shovel, will tell you that there is nothing of a poetical nature in connection with their eight hours' hard work.

An almost perfect system of ventilation has been organized with regard to the underground workings. In addition to the main or surface air-shafts there are several winzes, which serve as air passages and for gravitating mullock or débris to fill up the stopes left vacant by the removal of the ore. The winzes are 6 feet by 4 feet, timbered and sunk in the lode at such distances apart as to cause an upward and downward draught. It is worthy of observation that although warm at times, from the lightness of the atmosphere above, no foul air concentrates in the drives and tunnels. The shafts, from which no levels extend, are close divided, so that the pure, fresh air rushing down one compartment drives what little impure air there is up by another division. Stopings is a term which, although ambiguous to the majority of people, is yet explicit enough to those interested in mining. In the Broken Hill claim the overhand system of stoping is adopted. This simply means that the pick is mostly employed in opening out a chamber in the lead ore to a height of, say, 7 feet, the width varying according to the extent of the lode. Starting from the level of the winze, a section, generally 6 feet or 7 feet wide, is taken out, the stuff gravitating through a shoot to a lower level. Here the shoot is protected by a sort of trap-door, which regulates the quantity of stone falling into the truck under the mouth of the shoot. As quickly as each truck can be filled it is pushed along the tramway to the cage waiting for it in the shaft, up which it is drawn in a few seconds. Stoping has been done along the course of the lode, in some instances to a distance of 20 or 30 feet, the space being afterwards filled in with mullock sent down from the surface. Another section, parallel with the first, is then removed, and if the ground be at all of a loose nature, sets of timber are put in, and country rock banked against the mulga poles or bars, which are set to form the sides of the section.

In several of the stopes I noticed that every care had been taken to prevent the ground from falling in and burying the miners; the timber, although not so heavy as that in the main drives, being sound and well put together. In only one spot did I observe the wall and roof in any way dangerous looking, and this, I understand, will very shortly be rendered quite safe by timbering. The greatest extent of stoping has been done from the 212-foot level, in Rasp's shaft, where the lead ore, being of a friable nature, crumbles fine as it falls from the pick, whereas in Brodribb's and Jamieson's shafts, the iron ore comes down in heavy junks or masses. Stoping will be conducted on an extensive scale immediately additional smelters are erected. At present some 4,000 tons of ore per month undergo treatment at the five 30-ton smelters. In addition to these, three new 80-ton smelters will, in the course of a few months, be ready for work, and then it is estimated that 10,000 tons of ore per month can be put through. Even with this increased power many long years are likely to elapse before the last truckful of ore is brought from the bowels of the Broken Hill claim. All through pick work is for the most part done, powder and dynamite being only required in ground where there is a preponderance of iron. The expense of sinking, driving, and tunneling is consequently not so great as in hard ground, while the comparatively soft-rock formation admits of high, roomy drives being formed. Free and easy traveling is thus insured to every part of the mine, except in odd instances, where an accumulation of ore has partially blocked up the drives, and where the explorer, unaccustomed to crawling, is painfully reminded of

the doom passed upon the serpent in Scripture, "Upon thy belly shalt thou go, and dust shalt thou eat."

Going through the drives one is struck with the massiveness of the timber supports, styled legs, and the roofing, which is known in mining lingo as caps. latter are from 4 to 6 feet long, between 12 and 18 inches in diameter, and rest on legs 7 feet in height, of almost similar size, and fixed in ground sills 3 feet apart. The ground sills, or timber plates, laid like the sleepers of a railway line, constitute a firm and substantial bed for the tram lines which run along nearly every drive. Both caps and legs are of creek gum and sugar gum, the former timber being the nearest possible approach to the veritable red gum, and the latter a sort of bastard blue gum. Red gum is conveyed by bullock teams from the Darling River, via Menindie, about 80 miles distant, while the sugar gum comes all the way from the South Australian state forests. The latter timber is carried by rail from Wirrabara, near Port Pirie, to Cockburn, the terminal station on the border of this colony, and 85 miles distant from Broken Hill. The caps and legs cost from 5s. to 10s. each delivered at the claim. Very little work has been done below water-level, so that the whole of the underground workings are comparatively dry. The only great rush of water is in Jamieson's shaft, which has now ceased work in consequence. Only one tunnel runs right through the hill. This starts from a point nearly midway between No. 2 air-shaft and Patterson's, and continuing for about 500 feet opens out on the eastern side of the hill. The tunnel is 7 feet wide and 6 or 7 feet in height, runs most of the way through the inclosing rock, and proves the lode to be 60 feet wide. The two other tunnels, Nos. 1 and 2, mentioned in a previous article, start from the eastern side of the hill and penetrate the lode before reaching the drives. To wander along all the different drives and tunnels would occupy several days, there being miles and miles of excavation; in fact, for fully half a mile in length and several hundred feet in breadth, the hill is partially honeycombed. To give an idea of the rapidity of the explorations, six men have driven levels at the rate of 100 feet in

three weeks, the levels being 7 feet high and 4 feet wide.

Rising from within a few hundred yards of the main street of the township, the Broken Hill, although of a fair height, is by no means majestic or picturesque. Mulga scrub and scanty herbage clothe its rocky sides, and it is crowned with outcrops of what has been proved to be valuable stone. Perched about half way up the hill the smelters look down on the town, while a quarter of a mile away to the north lower down are Mr. Schlapp's, the metallurgist's, house, and the company's office, surgery, dispensary, etc., and beyond this again the residences of the manager and mining manager. Plodding wearily up and down the steep cutting leading to the smelting works every hour of the day, the horse and bullock teams have anything but an easy life of it. The company own about 20 draft horses of a splendid stamp, but these are employed exclusively in the vicinity of the mine. The carting to and from Cockburn, 35 miles distant, is done by teamsters, who load with coke, machinery, and general supplies for the claim, and take bullion on the back trip, the carrying rate being 35s. per ton. Viewed at night by the ruddy glare of the furnaces, the red, red gleam of the liquid slag, and the brilliant steel-blue luster shed by the electric light, smelting operations appear singularly weird-like. The five furnaces stand in a line a few feet apart. From the floor overhead the ore is thrown into the cavernous mouths of the iron caldrons. Down, down it falls, crushed, and heated, and melted in the burning, fiery furnace, until at last the bright metal pours in a blood-red, seething, boiling stream from the lower and smaller end of the furnace. None of the changes that the ore undergoes in transmission is visible to the naked eye, and no sound is heard except the thud of the falling stone, the throb of the engine, and the constant roar of the furnaces.

There are, however, preliminary operations, which are best understood by being described in detail. The ore, after being taken out of the shaft, is sorted by men and boys skilled by practice in classifying it. The first-class ore, which includes kaolin, lead, and silicious ores, is sent to the upper floor of the furnace for mixing. This is done by the different ores being placed in piles or heaps, from each of which a certain proportion, with limestone and iron added for fluxing, goes to form "a charge." The latter weighs fully 1,000 pounds, and together with about 140 pounds of coke is placed in the furnace. As the mixture sinks lower and lower with the heat, a further supply of ore and coke is thrown in, and so the work continues day and night, week in and week out, all the year round, except for a day or two when cleansing becomes necessary. The second-class ore, after being sorted over again, undergoes similar treatment to the first-class ore, the inferior being put aside pending the erection of a concentrating plant, the only machinery of this description at present being a couple of jiggers and one buddle. Excavated out of the rocky side of the ridge, and protected in that direction by a stone wall, there is little danger of the smelting floors decaying or breaking down. Huge blast pipes run along the wall 8 or 10 feet from the floor, but there is a marked absence of complicated ma-

chinery, especially in the way of wheels, belts, and rollers. Only one 40 horse-power engine is employed in making the blast; another, a 50 horse-power, American, being kept ready in case of emergency. A small engine drives the electric-light machine, and three steam pumps are used for forcing the water up from the tanks sunk below the furnace floor. The water supply for the boiler is obtained from two large tanks situated three-quarters of a mile from the mine. The furnaces are about 10 feet high, oval-shaped, measuring inside of all 70 by 40 inches. These figures, however, give but a crude idea of their external size, the water jackets on the outside investing them with quite a bulky appearance. After remaining a very short period in the · jackets, or space between the furnace proper and the outside covering of iron, the water becomes quite hot. It is then drawn off through a pipe into the cooling tank, from which, when cold, it is pumped back, and again utilized in the furnaces. During the melting process the ore separates into bullion and slag, the former carrying all the lead and silver, and the slag being the refuse. The latter, if correct in chemical composition, will expel all the lead and silver, and the bullion, being the heavier, sinks to the bottom of the furnace. From time to time the slag is drawn off into cast-iron pots, which, being set on hand-trucks, are wheeled away and dumped over into the waste heap. About half an ounce of silver per ton and from 2 to 3 per cent. of lead remains in the slag, this representing the only loss, and

one which it would not pay to attempt to recover.

At the bottom of the furnace crucible a siphon connects with the lead well. Into the latter, as it oozes from the crucible, the bullion falls in a red, sputtering liquid Dipping his rod-iron ladle into this, the "tapper" fills the iron molds ranged in a row near at hand. These molds are about 2 feet long and 5 inches broad, and a hand lever at the end insures the ready emptying of the mold, when the burning liquid has settled into a solid bar of bullion, a period which occupies only a few moments. Sampling constitutes the next process. With a half-round chisel a chip is taken from the top of each of five bars, and another chip from the bottom of five other bars. The chips are then melted into a small bar. The latter is assayed in an office devoted to the purpose hard by the smelters, and the assay taken to represent the average value of the "lot" of one hundred bars, each lot being stamped with a number, so that buyers can check the work and quality of the bullion. The bars are stacked in piles containing seventy each during the process of sampling, but are afterwards placed in lots of one hundred, the output representing from one thousand to twelve hundred per day. Each bar weighs about 87 pounds, and either one hundred or two hundred constitute a load for a horse or bullock team. After being delivered at Cockburn, on the South Australian border, the bullion is conveyed by train to Adelaide. From the latter city it is shipped to England, where, at public auction, the mineral wealth of Broken Hill becomes the property of the highest bidder. The bullion varies in quality, according to the grade of ore, from 150 to 350 ounces of silver per ton, the value per ounce ranging according to the state of the market. When the border railway is finished its terminus will be 150 yards below the smelters, and it is then intended by the company to run a switch right along the mixing floors. This will enable the bullion to be loaded direct into the railway trucks, and coke, etc., in like manner landed at the furnace, thus doing away with carriage by horse and bullock teams.

The proprietary company are really working only blocks 12 and 13, or about 80 acres in all, while block 14, or 40 acres, on the north has lately been formed into-a separate company. This latter includes the shareholders of the parent company, to whom six shares for every one held in the proprietary company's claim were allotted. Ninety-six thousand shares were thus distributed, the remaining four thousand being still held by the company. The total value of the property is estimated at £500,000, thus representing one hundred thousand shares at £5 each, the ruling price now being £5 3s. per share. It was probably a wise proceeding on the part of the directors to decide on floating block 14 into a separate company. There wassuch a large extent of ground in the proprietary blocks, and the workings had become of such a colossal description, to say nothing of three years out of the twenty-one years' lease having expired without more than two blocks having been worked, that the shareholders would undoubtedly lose, although in an indirect manner, by any further delay. Already on block 14 three shafts have been sunk, at an average depth of 140 feet. The lode has been cut and good prospects obtained; but it will be some time yet before the mine is fully developed. Mr. S. R. Wilson, who has managed the B. H. P. Company's claim for the past eighteen months, will shortly take charge of block 14. His retirement is caused by the appointment of Mr. W. H. Patton as general manager of the parent company. Mr. Patton was superintendent of the Consolidated Virginia Silver Mining Company and other celebrated companies on the famous Comstock lode. He holds a leading position in the silver-mining world of America, and his great experience will probably be turned to the best account at Broken Hill.

Half-yearly reports of the progress of the mine, etc., are issued from the company's

office in Melbourne, and in that recently published are very elaborate and correct plans and sections of the whole of the workings. In connection with the authorship of these, "honor to whom honor is due" has not been carried out. Surveys of the underground workings were made by Captain R. Piper, mining manager, and the plans were drawn by Mr., W. R. Thomas, the well-known draughtsman of the Barrier. Both gentlemen devoted a great deal of time and trouble to the work, going even into the most minute details, but singular to state neither gets the credit of doing it, the names of two Melbourne men appearing on the lithographed plans in place of those of Messrs. Piper and Thomas, which were attached to the original plans. Shares in the Broken Hill Proprietary Company have been ruling extremely high for some months. With a few fluctuations they have risen during the past fortnight from £137 to £145 each. This price makes it next to impossible for small capitalists to operate to any extent. It has, therefore, been suggested, and I understand that the directors have the proposal under consideration, to increase the present number of 16,000 shares to 820,000, or in the proportion of 20 to 1. By this means greater facitities will be given for the investment of capital; but the chances are all the same that the shares will be considerably higher in proportion than under present arrangements. Blocks 15 and 16, which lie to the north of block 14 on the same line of the Broken Hill, are to be placed at an early date on the English market. For this purpose Mr. Knox, general secretary of the company, proceeds in a few days to England. It is an open secret that Mr. Knox intends to try and float a company of 200,000 shares of £5 each, or with an aggregate capital of a million sterling. On block 15 a shaft has been put down to a depth of 120 feet, and another has been sunk on block 16. Prospecting has also been done to a small extent, and mining experts who have examined the ground speak well of its future. The blocks contain an area of 101 acres 3 roods, and the Broken Hill line of lode is to be seen running through them with occasional breaks. Time, however, will alone show if they are of the enormous value estimated by the directors. Two other blocks, Nos. 10 and 11, situated to the south of the proprietary company's claim, will be most likely placed on the market if Nos. 15 and 16 are successfully floated.

A correspondent of the Telegraph estimates the value of the Broken Hill Proprietary Company's property at £25,000,000, and mentions that a new manager is

coming from America at a salary of £4,000 per annum.

# TRADE OF SHANGHAI FOR THE FIRST QUARTER OF 1887.

## REPORT OF CONSUL-GENERAL KENNEDY.

The quarterly returns of the trade of the treaty ports of China, compiled by the Imperial maritime customs, embracing the quarter ending March 31, 1887, were published on the 3d instant. These quarterly returns consist of tables. They contain no comment whatever. The following has reference to the port of Shanghai solely:

Shipping of	f the port of	Shanghai.
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Safling vessels entered.		Steamers entered.		Sailing vessels cleared.		Steamers cleared.	
From—  Coast and river ports.  Japan. New York. Sydney. Antwerp. Great Britain. Hong-Kong. Bangkok. Fremantle. Burrard's Inlet. Port Blakely. Re-entered.	6 2 8 2 1 1 1 1	Coast and river ports Japan Great Britain Hong-Kong Bombay Marseilles Bremen New York Bremerhaven Singapore	86 28 10 7 5 2 2	Coast and river ports Japan Manila Puget Sound London Hong-Kong Guam Vancouver Nova Scotia Macassar Akyab Rangoon Port Townsend British Columbia	821111111111111111111111111111111111111	For—  Coast and river ports	4 7 2 2 1
Total	92	Total	471	Total	106	Total	551

During the current quarter (ending June 30, 1887), it appears that three steamers and one sailing vessel, each with what is termed a "general cargo," have cleared for New York. The custom-house manifest of the sailing vessel is before me, and I will quote it, as it may be of interest to shippers:

Chinaware, fine piculs*	5. <b>46</b>
Hides, cowdodo	
Nut-gallsdo	
Straw braid	
Wool, sheep's	665. 19
Hats, strawpieces	300,000
Matting	150
Transshipment from Japan:	
Hidespackages	117

Invoices have been certified at this office recently for cargo to the United States, to be shipped via the Canadian Pacific line; thus it will be seen that a new channel, under British auspices, has been opened, and a portion of its support is derived from American shipments.

#### IMPORTS.

Cottons.—In reviewing the business of Shanghai for the period embraced in this report, I find that at the opening of the year the spell of "settling time" restricted trade in all its branches. Under the head of "Commercial intelligence," one of our local journals, dated January 4, stated:

Our trade with Chefoo during 1886 approaches closely in its general outline and results to that of the more northern dependencies, viz. a decrease in the off-take of almost everything English and an increase of everything American and of cotton yarns.

On the subject of Tientsin, the same writer remarks:

Inclosed be found the yearly totals of our exports (re-exports from Shanghai) to Tientsin, for the eleven years ending 31st December, 1886, which we leave to tell their own tale, merely remarking, en passant, that last year's consumptive off-take shows a decrease on the whole as regards English manufactures, in contradistinction to a marked increase as regards American goods.

The table referred to forms an inclosure to this report.

At the date of the paper referred to above, business in American drills was on a basis of 2.60 taels, net, while the English goods were 2.45 taels.

The first steamers for the north, after the reopening of navigation, left Shanghai March 3. The shipments of the Shanghai dealers met with a quick and profitable sale. The clearances for Tientsin for the season, as far as published by the custom-house, as against those for the corresponding season of 1886 and 1885, were:

	1887.	1886.	1885.		1887.	1886.	1883.
	Pieces.	Pieces.	Pieces.		Pieces,	Pieces.	Pieces.
Gray shirtings	282,030	205, 100	108,000	Jeans:			
White shirtings	89,065	107,600	55, 400	English	25,040	20,400	4, 800
Drills:			,	American	4,700		
English	22,970	84,400	12,000	Sheetings:	<b>_,</b>		
American	25, 200	25,700	8,000	English	6,010	8, 100	4,800
Prints	87, 104	20,000	9,000	American	117,572	124, 400	28,700
Turkey reds	20, 295	16,400	17,900	Im. cashmeres	4, 259	9,900	7,000
Spanish stripes	948	1,600	600	Cotton lastings	87,692	36, 400	24, 100
Figured lusters	1.840	1,450	1,890	Lastings	2,981	2,440	1,400
T-cloths, 82-inch	58, 345	50,700	42,500	Cotton yarn	8, 184	5,500	1,200

<sup>\*1381</sup> pounds average = 1 picul.

These figures are given to show the ultimate destination of a large

portion of the Shanghai imports.

The following table shows the import of cotton goods during the quarter, as compared with the same period of previous years. What falling off may appear as compared with 1886 has no significance, as the period of a single quarter is too short to be taken as a criterion:

Articles.	1864.	1885.	1886.	1887.
Shirtings:				
Graypieces		1,248,890	1,001,182	1,391,777
White, plaindo	. 895, 276	416, 819	890,051	861,649
Dyed, plaindo	. 15,878	85, 220	26, 108	18, 482
White, spotted and brocadeddo	8,779	498	5,478	809
Dyed, spotted and brocadeddo	. 20,471	6,768	11,951	24, 257
T-clothsdo	. 882, 951	377, 671	817, 144	588, 156
Drills, Englishdo	. 24,855	42, 100	112,672	78,715
Jeans, Englishdo		25, 309	29, 417	58, 189
Drills, Americando	. 56,871	70,575	114,825	88, 167
Jeans, Americando		6,000		1,000
Drills, Dutchdo		80	660	5,800
Jeans, Dutchdo		4, 920		6, 994
Sheetings:	],	-, 5.55		0,002
Englishdo	. 40,862	68,668	75, 186	76, 114
Americando		182,840	202, 785	185, 428
Chintzes and furnituredo	135, 469	90,025	128, 680	106, 519
Turkey red cloths or cambricsdo	67,778	86,777	71,976	65,974
Damasks, dyeddo		464	27	118
Velvetsdo		12,006	16, 648	11,807
Velveteensdo	3,872	3,618	9, 951	3,580
Dimitiesdo	. 0,012	0,010	512	0,000
Lawns and muslinsdo	. 88, 208	48,756	106,827	28,983
Handkerchiefsdozen	78, 324	25, 687	50, 632	103, 870
Yarn piculs	7,984	10.785	86, 208	40,053
ramprcus.	1,904	10,100	00, 200	₩V, 000

Kerosene.—The importation of kerosene from the United States for the quarter was 3,314,015 gallons.

# EXPORTS.

The following table describes the exports from Shanghai to the United States, and the quantities exported:

Articles.	Quantities.	Articles.	Quantities.
Feathers	150. 31 8, 084. 32	Silk: Pongeespiculs Skins, goat, tanned and untannedpieces	ļ
Nutgallspiculs Rhubarbdo Rugs, goat-skinpieces	82 50, 84	Straw braidpiculs Straw hatspieces	7, 492, 68 86, 000
Silk:  Raw, thrown, yellow, re- reeled, reeled from du-	11,000	Black piculs Wool:	929. (12 24. 796. 30
pions, and spunpiculs  Refusedo  Piece goodsdo	39, 96	Camel'sdo	

Re-exports from Shanghai to Tientsin for the last eleven years, compiled from the customs returns.

	1886.	1883.	1884.	1883.	1882.
Gray shirtingspieces	1,289,939	1, 328, 820	1, 148, 027	1, 188, 400	1,029,200
T-cloths, 32-inchdo	338, 398	468, 828	446,844	451,400	445, 100
T-cloths, 36-inchdo	6,608	5,880	1) ' 1	•	•
White shirtingsdodo	553, 280	598, 720	566, 821	475,000	470, 500
English and Dutchdo	118, 817	134, 474	74, 170	114, 800	119, 200
Americandodo	260, 137	168, 960	198, 987	190,500	168,000
English and Dutchdo	93,076	78, 899	70,845	88, 400	1 400 000
Americando	20,880	14,960	83,820	22, 800	126, 200
Englishdo	25, 233	45, 182	30, 185	48, 800	36, 500
Americando	976,688	718,082	584,060	<b>3</b> 63,000	<b>368</b> , 500
Dyed shirtingsdo	4,783	24,725	14,687	8,500	

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# Re-exports from Shanghai to Tientsin, &c.—Continued.

	1886.	1885.		1884.		1883.		1882.	
Brocaded and spotted shirtings:		1							
Whitedo	30	1,:	198		400		94 .		
Dyed	14,618		479	14	450		11,450	5,400	
Damasks, dyeddó			320		540		940	1, 19	
Chintzesdo	78,828	56,			856	(	65,900	)	
rinted T clothsdo	61,506	88,		24	895			<b>68,500</b>	
Printed twills 'do	83,709	45,			,872		42,000	)	
urkey-red shirtingsdo	107,550	118,	871	185	,201	1	81,500	130, 300	
eivels	4, 395		436		660		1,800		
elveteendo	802		110		178		360	2,400	
[andkerchiefsdozens	17, 185	14,	056		, 126		8,700	18,700	
Iuslinsrieces	13, 261	11,		17	, 887		17,800	20,000	
dodo	150		100	_	200		1,200	1,300	
otton yarnpiculs	88,759	27,	058		, 209		6,000	4, 900	
panish stripespieces	8,024	8,	554		, 486		5,500	6,40	
edium and broad clothsdo	2,418		084		,554		2, 100	60	
amletsdo	7,250	0,	290		794		4,800	7,00	
ong ellsdo	2,860	32,9	660		, 800		2,880	2,00	
astingsdo	18,077	14,		12	,844	· ·	11,900	10,70	
astings crapedodo	140		100	420	140		140	10	
otton lastings and Italiansdo	170,042	. 166,	901	10%	, 122	1	98,800	<b>58, 20</b>	
usters:	4 000	1	ARA		OFO		ا مم		
Plaindo	1,280	~ :	450	4.4	950		18 800		
Figureddo	7,698	1 7,9	085	14	,021		18,000	18, 90	
Crapedo	12,725		684	മെ	210 897		100 4,800	40 40	
ead in pigspiculs ron, nail-roddo	20, 991	16,			122		7,800	18, 40	
ion, man-rou	20, 681	10,	900		, 120		1,000	16, 10	
			i			_ [		<u> </u>	
•	1881.	1880.	18	579.	187	8.	1877.	1876.	
_			·			{-			
ray shirtingspieces	1, 115, 600	975,000	1,21	8,900	751,	600	773, 100	1,080,00	
-cloths, 82-inchdo	518,700	494, 100	52	0,800	390,	100	543,900		
-cloths, 86-inchdo	1 )		1	•	ł		•	645,00	
Vhite shirtingsdo	536,700	422,900	• 44	2, 100	251,	400	257, 100	804, 10	
rills:			١ .					1	
English and Dutchdo	199,600	140,500		4,700	108,		151,500		
Americando	190, 800	114,800	25	9,700	116,	600	90,500	104, 40	
eans:	,		1		İ	- 1		1	
English and Dutchdo	152,500	122,200	11	8, 100	62,	200	124,900	176,60	
Americando	,,			,	33,			1	
heetings:	00 400	04 000	١ .	400		I	00 000		
Englishdo	89,400	84,000		<b>6</b> , 400	20,		39,300		
Americando	869,000	855,000		9,000	187,		144,800	<b> </b>	
Oyed shirtingsdodo	(‡)	(‡)		<b>‡</b> )	G	<b>(</b> )	(‡)	(‡)	
Brocaded and spotted shirtings:		[	1	0 000	ł		1 000		
Whitedo	5,800	10 000		2,800	177	~~~	1,900		
Dyeddo	1 500	18,770 860		2,700		700	4,700 2,000	21,80	
Daniasks, dyeddo	1,500	300		2,500	1,	800	2,000	4,90	
Chintzesdodododo	61,100	58,700	1 .	<b>12</b> ,000	90	200	48,500	KG 00	
Timou I-Cious		50,700		<i>i</i> z, 000	29,	200	20, DIV	56,00	
Printed twillsdo	150 700	110 000	10	100	81	700	190 000	979 40	
urkey-red shirtingsdo	156,700	119,000	.14	21,100	61,	100	120,000	272,40	
Velvetsdo	8,200	2,700	1	845		844	1,700	1,80	
elveteensdo	1)	18,800		21, 100		600	11,500	-	
Iandkerchiefsdozens	80,400			4, 900			5,000		
Iuslinspieces	16,600	11,000			· -	500			
Dimitiesdo	1, 100	• • • • • • • • •		1,900		••••	1,800	1,70	
otton yarnpiculs	9 900		ļ	6,400		100	4,400	7,50	
panish stripespieces ledium and broad clothsdo	8, 200 300	6,600	1	*50		<b>3</b> 00	500		
amletsdo	8,400	7,100	l	9, 200		200	5,800		
ong elisdo	2, 100	1,600		2,800		600	1,500		
astingsdo	12, 400	12,900		1,900		200	7,900		
astings crapedodo	549	12,000	,		1,	120	.,	11,00	
usters:	שניט		ļ	• • • • • •	<b>,                                    </b>		• • • • • • • •	1	
Plaindo	1		]			ł		1	
Figureddo	18,400	14, 300		7,200	18,	700	24, 200	88, 80	
Crapedo	( 10, 400	12,000	°	, , ,	10,	.50	₩ <b>=</b> , ₩₩		
ead in pigs piculs	8,400	18,000	1	2,000	K	600	4,800	8,00	
	. ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			~~ ~~~	. •	~~~		, 0,00	
ron, nail-roddo	81,600	2,500		5,600		500	1,500	8,30	

J. D. KENNEDY, Consul-General.

United States Consulate-General, Shanghai, June 30, 1887.

# TRADE AND PROGRESS IN FORMOSA.

REPORT OF CONSUL CROWKLL.

Tamsui.—Tamsui proper lies at the mouth of a little river called Ho Beh. It is a place of small commercial importance except as a shipping port for the more important commercial center which lies a few miles up the river. A bar extends obliquely across the mouth of the river, and steamers whose draught does not exceed fifteen feet can cross the bar at high tide, though when a heavy sea prevails it is dangerous to navigation.

Twatutia.—Ten miles up the river is Twatutia, a city of much commercial importance. Here are located the hongs of the foreign merchants, who are chiefly employed as purchasers and exporters of

tea.

Formosa teas.—The Formosa oolong teas are much superior in quality to the colongs grown on the mainland around Amoy, and it is a favorite black tea in the American market. Fully 95 per cent. of the Formosa teas find a market in the United States. Six foreign firms are engaged in this trade, only one of these being American. It is a matter of regret that this profitable trade should be so largely in the hands of English merchants while the market is in the United American capital, backed by intelligent knowledge of the trade, and in the hands of men of business, experience, and ability, such as our country have in abundance, should be able to find here a profitable field for investment, and ultimately place this trade in American hands, where it properly belongs. Such an enterprise is not, if intelligently managed, an experiment, for the demand and market for these teas already exists in the United States, thereby placing such a business upon a much better footing at the very outset than would exist if a demand had to be first created and a market found. To this extent at least American capital under American management would not be embarked in a business whose outcome might otherwise be problematical. A syndicate of New York dealers in these teas, who have some experience in the trade here and an extended knowledge of the American trade therein, might here find encouraging field for their enterprise, which would largely increase their profits and profitably employ very considerable capital. Twatutia the tea is fired and boxed, then sent down the river in junks and lighters to Tamsui, and there put on steamers and sent to Amoy, where it is finally inspected and made ready for export to America.

Lead lining.—The leaden lining for the tea boxes is the product of native labor. It is made by melting the pig lead and pouring it thinly over a flat surface and then beating it by hand to the requisite

thinness.

Banka.—Above Twatutia, and in sight of it on a bend of the river, is Banka, a town or city of considerable size and importance. Between these two unwalled cities, on a nearly level plain, stands the political capital of the island, Taipakfoo. Six years ago, where the capital city now is, the foreigner went gunning for snipe. Now a city surrounded by solid stone walls, three miles in circumference, with strongly secured arched gateways, confronts the beholder. These walls are battlemented and well built, and inclose a space rectangular

in shape. Wide, level streets, stone-paved, with brick gutters, intersect each other at right angles within the walls. Building is progressing rapidly in the new city. The fronts of these buildings are uniformly built on the line of the streets and brick arches across the sidewalks carry their verandahs out to a line with the curbstone. This method of building brings all the walks under cover and protects the pedestrian from the fierce rays of a tropical sun as well as from the

frequent rains that prevail during the warm season. Telegraphs.—I informed you in a former report of the cable and land lines of telegraph, as well as the railroads that were under contract or consideration in the island. I now have to report that the cable is not to connect the island with the main-land at Amoy, as then understood, but is to be laid from Keelung, across the channel to Foochow, the vice-regal capital. The exact date of its accomplishment I was unable to learn, but the work of laying it will undoubtedly be commenced and completed in the near future. line has been completed from the capital to Tamsui. This has been a great convenience to the foreign merchants at Twatutia. service seems to be efficient, and to add to its efficiency a fine brick building for the use of the telegraph lines is rapidly approaching completion. This building is well and conveniently located. The line is to be extended northward to Keelung and south to Taiwanfoo. the southern end a cable will connect Formosa with the adjoining Pescadores Islands, which are important in a military and naval point of view as having a good harbor, something that does not exist on the coasts of southern Formosa.

Railroads.—The material for building one hundred miles of railroad, with a limited amount of rolling stock for the same, has already been contracted for with foreign firms by the governor-general. Of this, the section of twenty miles from the capital to Keelung has been let to a German firm, while an English firm has got the contract for furnishing all the material for the eighty-mile section to be built southward from Taipakfoo. Each of these firms is to recommend a competent engineer to superintend the work on the respective sections, his services to be paid for by the governorgeneral, while the latter furnishes the cross-ties and labor to construct the road-bed and lay down the track. The gauge of the road is to be three feet six inches. The soldiers, of whom the governorgeneral informed me there were twenty thousand on the island, are to be utilized as laborers in building the railroad. I hear that these important steps have been duly authorized by the Imperial Government, but the necessary funds to pay for these improvements are to be furnished by the governor-general out of the revenues and resources of the island.

Electric lights.—The governor-general has decided to light the provincial capital with electricity, and has already given the contract therefor to a well-known American house, long engaged in the China trade. This American firm has likewise contracted to build two fast steamers, with triple expansion engines, for his excellency, and also a steam saw-mill, to be used in making lumber and timber for his many improvements. Taipakfoo will be the first native city to be lighted by electricity, and it is gratifying to know that an American house has the contract for furnishing the necessary plant and introducing this modern improvement into China.

Resumé-—It is impossible to overestimate the energy and intelligence of that moving spirit that has directed these wonderful strides

towards modern ideas and improvements which have taken place in Formosa in the past five years, or the influence and effect the steps so taken may have upon the future history and destiny of China, and especially so in the event of the final completion and successful management of these improvements. Only those who know the strong conservatism of the Chinese and their repugnance to everything that runs counter to that conservatism and the ancient regime, can fully understand the importance of this movement. It is not a step; it is a mighty leap in advance, and it required a Chinaman of no common ability, but of great liberality of sentiment, strength of character, and strength of will, to understand the value of these improvements to his countrymen, and who could and would successfully combat the obstacles with which the conservatism, the prejudices, and the jealousy of his countrymen would seek to embarrass and obstruct his way. That Sin Ming Chuan, the governor-general, is the right person to do this, the history and results of his administration of affairs in Formosa for five years past seems conclusively to prove. Much of all that he has set about to do yet remains for future completion.

WM. S. CROWELL, Consul.

United States Consulate, Amoy, Formosa, June 10, 1887.

# OPIUM INDUSTRY OF PERSIA.

REPORT OF CONSUL-GENERAL PRATT.

From a careful study of the subject, as well as from personal observation, I am forced to the conclusion that we possess in California and in our Southern States an extensive region adapted, both climatically and by nature of its soil, to the successful cultivation of the opium-yielding poppy.

Of all products, opium is the one which in Persia insures the

largest and most direct cash return to the producer.

That the area of cultivation of the plant from which it is derived is greatly increasing follows as a natural consequence. As an article also of foreign trade, opium occupies here the first and foremost place.

The great markets to which it is exported are Hong-Kong and London; the one retaining it in greater part for home consumption, the other redistributing it in prepared or extract form to the world. Last year 4,253 chests were exported from Burshire, and 740 chests

Last year 4,253 chests were exported from Burshire, and 740 chests from Bender Abbas, making 4,993 chests in all, which represented a money value of 1,248,250 tomans, or, say, \$1,872,375. This, it will be observed, does not include what was consumed in Persia itself or shipped exertend of which we estimated an exercise to a vertex lead to the same as the constant of which we estimated an exercise to a vertex lead.

shipped overland, of which no estimates are as yet available.

The commercial and therapeutic worth of the different varieties of opium is gauged, as is well known, by the relative quantity of morphia they contain in the crude state. Careful and repeated chemical analysis has demonstrated the fact that an average larger amount of morphia exists in the opium of Persia than is to be found in that of Turkey, of Asia Minor, or of any other portion of the East; the latter containing rarely over  $9\frac{1}{2}$  and the first often as much as  $11\frac{1}{2}$  and 12 per cent. of this alkaloid. It is therefore my opinion, all things being equal, that the Persian method will be our safest guide in experimenting with poppy culture in America.

# CULTIVATION OF THE OPIUM-YIELDING POPPY IN PERSIA.

The Papaver somniferum, or white poppy, of which opium is the inspissated juice, is grown principally in and about Ispahan, Yezd, and Shiraz, the first-named taking the lead both as regards quan-

tity and quality of production.

The preparation of the land begins about the 5th of September, and consists in plowing, harrowing, fertilizing abundantly with ashes and detritus, and laying off into squares to facilitate irrigation. After sowing, the fields are irrigated three times, at intervals of fifteen days. From thence on, irrigation is suspended until the middle

of winter, when it is resorted to once only.

In the spring irrigation takes place on the 20th of March, after which the land is repeatedly harrowed and hoed in order to extirpate all parasitic weeds. If the plants are too close they should be thinned out, and from this time on watered every ten days and constantly harrowed until flowering begins, when all work must cease. When the heads have formed and have fully ripened a last flooding is given. Then six slight incisions are made at about the junction of the stem with the head. This should be done at noon. The juice that exudes is collected the next morning and the morning following at daybreak. When these first incisions have ceased discharging others are made lower down, and the operation may be thus thrice repeated; the opium obtained, however, being each time proportionately inferior in quality. Next the plants themselves are cut down and the heads sold, the natives using the seed on bread as a substitute for butter. The end of May is the season for harvesting.

E. SPENCER PRATT, Consul-General.

United States Consulate-General, Teheran, July 15, 1887.

# CULTIVATION OF THE DATE PALM.

# REPORT OF MINISTER PRATT.

As a first result of my endeavors to obtain practical information on the subject of the date palm (*Phænix dactilifera*), with a view to its introduction into the United States and cultivation along our South Atlantic and Gulf coast and in Lower California. I have succeeded in gathering from Persian sources the following:

The date palm is found in countries situated within the zone of 16 and 30 degrees north and south latitude. Except, however, in rare instances it will bear no fruit in localities removed 120 or 135 miles

from the sea.

There are two methods employed for propagating the date tree; one by setting the date stone, the other by transplanting the seedling

(self-sown).

When it is desired to raise a plant from the stone of the date one perfectly ripe and faultless is selected and both ends are either filed. or scraped off with a knife, until the inner kernel is laid bare. It is then planted in a mixture of gravel, sand, and camel manure.

From twelve to forty days usually elapse before it makes its appearance above ground. It will then put forth long, narrow, thin, and tender leaves, somewhat the shape of a saddler's needle. From the fourth to the seventh year it produces nothing except long, rough, reed-like leaves. It is, however, possible that during this period the tree may, from its leaves, which resemble the shoots of the cleander, bring forth other leaves; but owners of palm gardens pluck off these in order to give the tree a graceful appearance. Under no circumstances, however, do they touch the leaves that shoot out from the crown of the tree. If its head is severed from its body the whole tree withers and dies. Each individual plant is either male or female.

When the tree has attained its full stature a flowering branch is cut from the male palm and applied to the half-open flower-bowl of the female, thus giving it the fecundating principle without which

it cannot mature its fruit germs.

In no instance has it been recorded by botanists that one of these trees possessed in itself the different natures of male and female, and for this reason was it that the Arab savants classed the palm as the first of the vegetable kingdom and the last of the animal.

The height of the date palm varies from three to twelve meters.

The tree itself will indicate the time of fruit bearing.

When it has arrived at maturity it will cease its upward growth and throw out from its head a large mass of long, broad, green leaves, which protect the neck from the glare and heat of the sun. The young seedlings must be removed from the foot of the parent tree in the month of January, and planted and reared according to the foregoing instructions.

In Persia the palm is grown near the ports on the Persian Gulf; also, in the hot districts of Kerman, Khûrzistan, and in the oasis

of Jandak.

E. SPENCER PRATT.

LEGATION OF THE UNITED STATES, Teheran, July 3, 1887.

# FORESTRY IN CAPE COLONY.

REPORT OF CONSULISILER.

The total area of Cape Colony is computed at 214,000 square miles, of which something over 350 square miles is covered with large forest trees. These wooded tracts exist in the temperate regions of the southern mountain chains near the sea, running almost parallel to the coast.

Until within a recent period the working and management of these forests was of a very thriftless and unsystematic character. Fellings were confined to limited areas or sections; wood-cutters were allowed to pick and choose their trees indiscriminately throughout the forests, and to pay only for the wood actually removed. The consequence of such a method was that only the most choice trees were felled, and their rejected portions left to cumber the ground. It has been estimated that by working on this system nearly thirty cubic feet of wood were wasted for every one utilized and paid for. Natural reproduction was thus severely handicapped; many forests

disappeared altogether, and those which now remain and are at all

accessible have been impoverished to the last degree.

In 1880 the question of forest management was brought before the colonial parliament. It was pointed out that the persons in charge had received no special training for the work, which had in consequence suffered severely, and a salary for a trained forest officer was voted by Parliament. The services of Count de Vasselot, of the French forest department at Nancy, were secured, and he proceeded early in 1881 to organize the present forest department. Count de Vasselot adopted the method of dividing the forests into blocks and subdividing them again into sections. Fellings now proceed regularly in biennial sections, so that the regrowth in the first section cut may develop into mature trees by the time the working of the last section is finished; and there will thus be no occasion at any time to close the entire forest from fellings. The period for the "revolution" of fellings has been fixed at forty years. The tariffs for standing trees at present in force vary from 2 cents to 6 cents per cubic foot of sound wood, with one exception, stinkwood (Oreodaphne bullata), a very valuable and hard wood, for which the rate is fixed at 24 cents per foot, as this species was threatened with extermination. Poles from 6 inches to 10 inches in diameter are sold at 2 cents per running foot; spars from 4 inches to 6 inches in diameter, 12 cents per 100 running feet.

To illustrate the method now used in the colony for the management and conservation of forests, a description of that used in the Knysua, the most extensive and valuable in the colony, will only be necessary. The total forest area of the Knysua is approximately 100,000 acres, of which about three-quarters have been considerably exhausted by reckless and indiscriminate felling. The forest staff at this forest consists of one conservator, three officers of the higher grade, and six forest rangers, or guards. The work of each officer of the higher grade extends over an area varying, according to circumstances, from 10,000 to 30,000 acres. The timber, or high forest, is surveyed by him. He determines the boundaries of series or blocks, and draws up working plans for the formation of sections. All working schemes are submitted to the superintendent of woods and forests, and after their approval the lines are opened, sections surveyed, and trees available for felling counted and stamped with an official The rangers, or guards, are employed in riding about and reporting infractions of the forestry laws. Rewards for good cases are given from time to time for the successful prosecution of forest

cases.

In addition to the officers already enumerated, thirteen foresters are employed and distributed over the different forests. Their duties consist in planting and transplanting trees. They are paid at the rate of \$20 per month and are provided with quarters and ten acres of irrigable garden land. They are paid besides this a bonus of \$2.50 per 1,000 for planting passed nursery plants, \$2.50 per 1,000 for one-foot trees passed as established in the forest, or for nursery work and transplanting, \$5 per 1,000 passed trees. A bonus can not exceed \$200 per year without special sanction. Each forester is expected to raise at least 40,000 young trees annually. This system has so far proved a success. There were six foresters in the King William's Town forests in 1885, and during that year had 138,080 plants in the nursery, and transplanted into the forest 63,885 young trees.

As an additional and valuable aid in the efforts to preserve and in-

crease the forest area, the colonial government has laid out several large tracts of land into nurseries and plantations. These nurseries, though of recent growth, have proved their utility in the effort at reforesting the country. Over a million plants are now flourishing at Government nurseries. Convict labor is utilized in working them, and the expense of their maintenance is thereby reduced to a minimum.

At the plantation Tokai, on the Table Mountain range, plants have been raised from 150 species of extra-tropical trees. It is proposed to reforest the whole of the Table Mountain slopes, and in two seasons over 1,000 acres have been planted. Plants are distributed throughout the colony from these nurseries at a nominal rate. A stimulus has been given to tree cultivation by the passing of an act whereby public bodies are aided by Government to the extent of one-half of the expenditure on such work. These Government measures have tended to stimulate general interest among colonists and public bodies in the subject of arboriculture. In 1886 the first "Arbor Day," after the pattern in vogue in many of the American States, was proclaimed as a public holiday, and its success was such that it is likely to become a permanent institution.

With such machinery at work, and with a growing appreciation of the utility of tree-planting and forest conservation, it is confidently hoped that the efforts of Government in this direction will, in future years, render Cape Colony independent of foreign markets for her timber supply; while its effects on the immense tracts of fertile land, now useless for agricultural purposes by reason of inadequate or

capricious rain-fall, can scarcely be estimated.

JAS. W. SILER, Consul.

United States Consulate, Cape Town, September 14, 1887.

## WHEAT PRODUCTION IN ECUADOR.

REPORT OF CONSULGENERAL McGARR.

The area of the country, not including that in dispute between Peru and Ecuador, is stated at 150,000 square miles, the natural divisions of which are the coast, inter-Andean, and Napo regions, the last mentioned sparsely inhabited and only partially explored. The coast region embraces about one-fourth of the total territory, the inter-Andean one-half, and the eastern or Napo region about one-fourth. Three-fourths of the entire territory, with the exception of the very high altitudes and precipitous mountain slopes, are probably capable of producing wheat. The area actually devoted to wheat is from 35,000 to 40,000 acres.

Small wheat farms are the rule; or, to speak more accurately, the land is generally owned in large bodies and the proprietors rent small subdivisions to their Indian tenants, who are directed what crops to plant and how much land to each kind, so that the land planted in wheat is usually in small areas of from 1 to 10 acres.

The system of farming is quite primitive. No machinery is employed either in the sowing, cultivation, gathering, or thrashing of

the grain. The only implement used in the cultivation of the ground is the plow, made of wood, sometimes with an iron point, and always drawn by oxen. The seed is sown by hand and the wheat stalks are cut with knives. The grain is separated from the straw by the treading of horses and mules, the cut wheat being placed and distributed in a circular space on the ground, and two or three horses or mules, tied to a post in the center of the space, driven rapidly around, thus treading out the grain. It is winnowed by being dropped through small sieves held in the hand, the wind separating the dust and chaff from the grain.

Rotation of crops, as a rule, is not observed, but a few of the more

intelligent proprietors have of late adopted the system.

The average yield an acre is from 5 to 8 bushels, and the seed planted is usually one-tenth of the yield, but in the very dry lands it is sometimes one-fourth. It is a reasonably reliable crop, except in those districts where the rainfall is slight and variable. The crop of 1886 was greater than that of 1885 by ten per cent., and in some dis-

tricts of superior quality.

It is impossible to state, with any near approximation, the cost of production, as the persons actually engaged in raising wheat are too ignorant and indifferent to make any estimate, but I suppose, in the comparatively few instances where the farmer employs laborers and pays them fixed wages, the cost, including the marketing, is four-fifths of the value of the product. The price is not constant, but it is reasonably steady. The inferior qualities this year have been sold at \$1.60, and the superior at from \$2.20 to \$2.40—equal, respectively, to \$1.40, \$1.65, and \$1.80 in American gold—the 100 pounds. There are no regular quotations of the market, and I cannot give the quotations for a series of years.

The are no exports of wheat or flour, but flour is imported for all the coast region. Heretofore it has been brought almost exclusively from Chili, but within the last year shipments have been made from California, and there is now a good prospect of increasing the importation from that State, During the quarantine restrictions, established at this port last winter, excluding vessels from Chili, all the flour came from California. It is of a better quality than the Chili flour, and can be sold here at the same price. No export trade in wheat or flour has ever existed and none of the crop is exported.

No facilities exist for transporting grain, and it is transported only from the fields to the towns in the interior where there are mills. It is carried, like all other commodities in the country, on the backs of Indians and mules. If there were roads from the interior to the coast, doubtless the greater part of the flour supply of the coast would come from the inter-Andean region.

Wheat is not the staple food of the people. It is used in the form of flour by not more than one-tenth of the population. It enters into the food of probably another tenth without being ground. The staple food of eight or nine tenths of the people is barley, maize,

and potatoes.

Generally speaking, cattle-raising is more profitable than wheat. There is some slight complaint over the present low price of wheat, but the price and production vary little from year to year. The price is generally low, because labor is very cheap, and the demand for wheat and flour limited, and not capable of being materially increased under present conditions. It is not unlikely that the area

now under wheat may be slightly decreased, owing to low prices.

The coming crop will probably be an average one.

There are six or seven water-power flour-mills, with modern machinery, in the country. In the provinces of Pichincha, Imtabura, and Carchi, of the fifteen of the Republic, the total quantity of flour from all the mills for 1886 was 7,160,000 kilograms, equal to about 60,000 bushels, which I think represents more than one-third of the whole product of the country.

OWEN McGarr, Consul-General.

United States Consulate-General, Guayaquil, July 25 1887.

# GOLD MINING IN BRITISH GUIANA.

#### REPORT OF CONSUL BUNKER.

Gold mining in British Guiana has been carried on in a small way for about twelve years, no one caring to assume the risk of searching for the rich auriferous deposits that undoubtedly exist here, on account partly of the opposition of sugar planters to this or any other enterprise having a tendency to deprive their estates of laborers and the refusal on the part of the Government to afford protection to miners in districts within the disputed territory where gold is found. Latterly a new impetus has been given to mining industries by the action of the British Government in declaring its right to the territory hitherto claimed by this colony and by Venezuela. The decline of sugar production has also resulted in withdrawing the opposition of the planters.

The mining done here is at present confined to placers, some of which are paying a handsome profit. No veins of auriferous quartz have as yet been opened up, though there is little doubt of the existence of such lodes. Specimens of the richest quartz are often found in placer washings. Two thousand five hundred laborers have been registered to work in the gold-fields up to date, and probably more than 2,000 of them are still at work. The employing of these men has, I estimate, increased the business of Georgetown over \$60,000 per month. A suspension of this industry from any cause would be

little short of disastrous to the trade.

The placers on the Groete Creek are reached by boat from Demerara in three days or by steamer in one day. Those on the Cuyuni River are reached in thirteen days, traveling by steamer to Bartica, thence by boat; and the Massaruni River by similar means of conveyance is reached in eleven days, the Purmic River by the same route in fourteen days. In all these rivers, except Groete Creek, there are dangerous falls or rapids, requiring skilled men in the bow and stern of each boat to enable them to pass, and even under these circumstances boats are not unfrequently capsized, and both freight and men lost. The Upper Demerara River is free from these dangers, but this section is not popular mining ground among prospectors, though placer washings and auriferous quartz have been found there.

The principal mining regions lie to the west of the Essequebo River, along the line of the rivers first mentioned, and along the mountains, that are evidently a continuation of the ranges on which the celebrated "El Callao," Callao Bis, and other mines of the Caratal district are situated. The country to the east of the Demerara River, extending for a distance of 100 miles through to the Corentyn River (eastern boundary of this colony), is as yet a "terra incognita" to gold seekers, though it is considered probable that the British Guiana Mining Company, called the "Big Company," will at an early date send prospecting parties through it.

The best results obtained so far have been by the efforts of Amer-

ican miners.

Mosquitoes do not add to the discomfort of miners, there being none, and the nights are sufficiently cold to make a heavy woolen

blanket for covering necessary.

The attention of our merchants and manufacturers is called particularly to the opening up of this new industry, as it is to them that mining in its infancy presents an opening for profitable trade. I think no one will dispute the fact that the United States produces the best tools and machinery for securing the precious metals of any in the world; therefore our manufacturers ought not to wait for a demand, but put themselves into a position to supply the tools and outfits which the incidental development and prospecting of a new mining country requires. In addition to quartz-mills, not yet needed, I believe the following classes of goods will find a good market: Axes, shovels, cutlasses, pans, lanterns, kerosene stores, explosives. tools, hammers, drills, and all kinds of materials used in mining operations; also drab broad-brimmed felt hats. When miners turn their attention to prospecting for quartz it will probably be necessary for them to do that work with diamond drills, on account of the great mass of débris covering the sides of the mountains.

The following comparative statement, showing the production,

may be of interest to American readers:

Years.	Quantity.	Value.
1884. 1885. 1886. 1887, to August 7.	Oz. Divt. Gr. 250 00 0 939 15 0 6,518 1 1 6,212 8 15	\$4,894.20 15,596.00 112,042.48 112,000.92

D. T. BUNKER, Consul.

United States Consulate, Demerara, August 23, 1887.

# GRAIN PRODUCTION AND LAND TENURE OF SIVAS, ASIA MINOR.

REPORT OF CONSUL JEWETT.

The figures given below on the grain production of the province of Sivas, while they are not claimed to be strictly accurate, are as reliable as can be obtained. The so-called official figures given by the provincial Government are of little value, being affected by a lack of system in gathering statistics. Another difficulty in preparing estimates is the difference in measurements used. There are three different standards, the "Sivas kileh," the "official kileh," and the "Stamboul kileh," and these are used indiscriminately. The figures here given have been prepared with as much care as the circumstances would permit, and are based on estimates made by parties qualified to judge, and on information obtained from private sources.

They may be considered as approximately correct.

The past season has been an unfavorable one, but the province has not suffered as much from poor crops as have other parts of Asia Minor. There have been a total failure of crops and consequent distress in isolated districts, but as a whole the province has escaped the disastrous results of failure of harvests which have affected the southern sections of Asia Minor, and which were feared here at the commencement of the season.

The province is divided into four districts (sandjaks), and each district into subdistricts, called kazas. The estimated yield of wheat and barley, the principal cereals, for the current year is as follows,

kilehs being reduced to bushels:

District.		Barley.	
First Second Third Fourth	Bushels. 1,425,000 722,000 615,000 185,000	Bushels. 876,000 262,000 198,000 129,000	
Total	2,947,000	965,000	

This is a falling off of about 35 per cent. from a normal crop. According to official statistics there were on hand on August last, in Government stores, about 775,000 kilehs of old wheat. There is about the same quantity in the hands of speculators. The population of the province is about one million. Should next year's harvest prove a poor one, a state of affairs approaching a famine must result. Besides wheat and barley, the province produces small quantities of corn, rice, lentils, chick-peas, vetch, and beans. A small quantity of opium is usually grown in the Niksar district, but this year the crop is a total failure.

While the province as a whole has produced sufficient grain to tide over until the next harvest, if evenly distributed, individual districts suffer greatly from failure of crops. In the Kasabad, Koumanad, and Zilleh kazas the crops were entirely lost. The people there have been reduced to abject want and obliged to sell off their cattle at ruinous prices, a cow bringing only 1 mejidea (88 cents). They have called on the Government for food as well as for grain for next year's seed and for release from taxes. The lack of roads and means of transportation make a district where the harvests have been a failure almost helpless, although neighboring districts may be well supplied with grain. The kazas of Marsavan and Gumush-hadji-keoi have also suffered greatly and been obliged to appeal for help. In the great valley of Sou-shehir the crops were entirely burned. In the Hamidiye district there is less than half the usual crop.

# PRICES AND VALUES.

Owing to the alarm over short crops and the prevailing scarcity in other districts, the price of wheat has been abnormally high the past season. Speculators forced the price from 30 piasters to 120 piasters per kileh. It is now quoted at about 80 piasters. This, how-

ever, does not by any means represent the value realized by the farmers. The Turkish small farmer is always in debt. It seems to be his normal condition and he accepts it as a matter of course, without any thought of its being a burdensome one. As a result he is generally obliged to sell his crop before it is grown and is constantly in the hands of the usurers. He sells his wheat, therefore, under most disadvantageous conditions and realizes not more than half, or even less, of its real value. The normal price of wheat may be estimated at about 60 cents per bushel. The farmer, as a matter of fact, gets about 20 cents a bushel. It is impossible to get any reliable figures as to the yield per acre. I presume it will average 8 to 12 bushels in a fair year.

# METHODS OF CULTIVATION.

The Turkish farmer seems to have no regular time for sowing. Winter wheat is sowed in all months from August to December. In the middle of September I have seen wheat well started so that it is as green as in spring. Late into December, too, plowing and sowing are done, as there are usually a few weeks of mild weather at that time. The seasons, it should be observed, are as a rule much like those of New England. Rain falls plentifully in September with frequent showers from then until snow comes. From April until the latter part of August there is usually sufficient rain, but this year there was practically none.

Plowing is done with the same sort of implement used a thousand years ago. The plow consists of a slight framework, carrying a pointed stick, sometimes shod with iron, to turn the earth with. Harrowing is done by dragging a beam of wood transversely across the furrows. Considerable manure is used on the land and the fields

are allowed to lie fallow every second year.

Grain is cut with scythes and sickles. The handle and blade in both are straight and set at right angles to each other. The crooked "snath" is unknown.

After the grain is cut it is carried to the common thrashing-floor, a smooth piece of ground used by all the people of a village in common. It is here spread out on the ground and thrashed by dragging over it a broad piece of wood, or planks joined together, having pieces of flint fastened on the under surface. The flints cut the straw and shake out the grain. The work is continued until the straw is cut very fine, when it is winnowed by throwing it into the air with a wooden shovel against the wind, and afterwards by throwing it against a sieve-like frame of cords set in the ground.

The straw is used as fodder for horses and cattle. No hay is grown; there is little grass, and this dry, chopped straw, mixed with barley, is the main subsistence of horses all the year round and of cattle

during the winter.

#### TITHES.

One-tenth of all the grain produced is taken by the Government. There are two systems of collecting tithes. The older system was the collection in kind by the Government direct. This system gave rise to great abuses and required an army of petty officials who considered the farmers as their legitimate prey. There was an enormous expense involved, and between the expense and the speculation of officials the Government received but a small part of its dues.

A few years ago the system of farming out the tithes for cash was adopted, the tithes of several kazas being sold to the highest bidder. This gave better results to the public revenue, but imposed equal hardships on the owners of grain under the impositions and exac-

tions of the tithe farmers and their subordinates.

This year a modification of the two systems has been adopted. The tithes are to be farmed out, not for cash but "in kind." conditions imposed, however, are such, for instance, requiring the lessees to transport the wheat they pay for their contracts to a central Government warehouse, that few of the contracts will be taken. This is probably what the Government officials wished for, as it will result in leaving the collection of the tithes in their hands and afford them the opportunities for peculation and waste of public revenues which are so much to the taste of many of them.

#### SYSTEM OF LAND TENURE.

In considering the agricultural resources of the country the system of land tenure is an important factor. The system is an involved one and full of intricate details. Its whole tendency is to keep land in the hands of Moslem subjects. As a rule the Moslems have neither the skill nor energy for developing the resources of land to advantage, and when this is attempted by Christians or foreigners it is so hampered by technicalities regarding title, involves such endless litigation, that in most cases it either has to be abandoned or worked through Moslem agents.

Land tenure in Turkey is of four kinds, viz:

(1) Arazie miriye, i.e., waste lands, natural pastures, wood lands belonging to the state. These are leased for a period of years. These lands are also sold on condition of being cultivated a certain number of years. Failing in this they revert to the state. This reversion, however, is more in theory than in practice, the law being seldom enforced.

(2) Moolk, or freehold; land to which the Government has surrendered all claim. It includes (a) all streets, roads, paths (not highways), which are supposed to be ceded by the Government for the convenience of its subjects; (b) transferable estate which may be bought or sold by permit from the landed estates department; (c) state lands called harrajie, given to the subjects and their heirs by the Government for distinguished public services.

(3) Vacoofs, i. e., land given by the state or by individuals for the endowment of mosques, colleges, monasteries, etc., and state lands, the tithe revenue of which is conferred as a gift on distinguished individuals. The latter sort is usually coupled with some condition, as that the person receiving it shall instruct a certain number of Moslem youth in the Koran, or provide a good meal for any traveler who

may ask it.

(4) Metroki, i. e., public highways and lands bestowed by the Government on towns and communities. There is another sort of tenure called "mevat," which is determined in a manner truly oriental. It relates to small pieces of state lands situate between the boundaries of villages. The theory of this species of tenure is that the pasture or common land of a village should not extend more than a certain distance, so that quarrels with the neighboring villages may be avoided. The way this limit is ascertained is this: one of the villagers, standing on the steps or minaret of the mosque, calls out as loud as he can. The point at which his voice can not be heard is the limit of the village property and common pasturage. At the neighboring village the same performance is gone through with, and the land between the two points is "mevat" and belongs to the state.

As will be seen from the foregoing, the central idea of the system of land tenure is that all Turkish territory belongs to the Government by right of conquest, to be disposed of by gift or sale or by

rental for a longer or shorter period.

The majority of the small farmers hold their lands under the protection of large land owners, who protect them in the local courts and receive in return a sort of feudal service. These beys, generally the descendants of ancient families, are a powerful class and practically own the peasantry under their influence. The latter must at any time abandon their own farms to cultivate that of their lord or to gather his harvests. They in turn are each assisted by their neighbors and assist them. Owing to this quasi-communal system the question of wages does not largely enter into the matter of agricultural profits.

H. M. JEWETT,

Consul.

United States Consulate, Sivas, September 28, 1887.

# CHANGES IN THE DOMINICAN TARIFF.

## REPORT OF CONSUL SIMPSON.

On the 4th of July last the Congress of this Republic passed a decree making important changes in its customs tariff. The following is a translation of the substance of the same, or at least so much thereof as is of general interest to parties abroad:

Article 1 declares absolutely free of all duties until the 31st December, 1890, and afterward until the passage of a decree annulling

the same, the following articles:

All classes of machinery for the development of agricultural and industrial establishments, together with accessory and spare pieces for same; tallow and oil exclusively applicable for use on machinery; phosphate and ammoniacal guano; zinc, galvanized iron, hand and steam water-pumps, windmills, hogshead and box shooks, and bags for sugar; rails and railroad spikes, railroad wagons, axles and boxes for wagons and carts; barbed wire fencing, coal, plows, spades, axes, crowbars, hand-rakes, short machetes, and, in general, any instrument exclusively used in the cultivation of the soil or for use in the mountains.

It is not intended to include in the foregoing as accessory parts of machinery such articles as may be applied to other uses, such as screws, bolts, nails, bars or sheets of iron or other metal.

Article 2 declares that the articles following shall be admitted subject only to a duty of 10 per cent. on their cost, by whomsoever im-

ported, viz:

Boards, planks, and scantling, of pine or pitch pine, or other woods for construction; shingles, roofing tiles, roofing slate, tarred roofing paper, or any other kind of roofing; bricks, flagstones, iron, steel,

and copper, in sheets or bars; nails and screws, of iron or copper; galvanized or not; Roman (Portland) cement, manila rope, tubes of iron, copper, or lead; lighters (large or small), iron tanks, hand trucks, picks and shovels of all kinds; bull carts and wagons, and also

wheels for making same.

Article 3 gives the executive authority to admit, free of duty, any or all of the articles mentioned in Article 2, and others that he may see fit, once only, to assist in the formation of new agricultural establishments, on being previously solicited to do so. But the exoneration only extends to the quantity that the minister of fomento deems just and in accordance with the proportion of the establishment to be erected, a plan of which must be submitted. If all the articles exonerated are not imported before the expiration of two years from the commencement of the establishment, they will be admitted only after the payment of the 10 per cent. mentioned in Article 2.

Article 4 refers to the disposition of the amount received from the

10 per cent.

Article 5 declares that Panama hats, revolvers, and cartridges shall also pay 10 per cent.; the former on tariff values and the latter on invoice value. In this class are included pianos, organs, and other musical instruments; iron safes, and all furniture and effects which heretofore have been imported free of duty (such as sewing-machines, etc.), provided they are not included in Article 1.

Article 6 relates to entry of goods.

Article 7 provides that notwithstanding the goods imported pay no duty, or only 10 per cent., yet manifests must be made as heretofore, and minute description given of the contents of each package. It also provides that importers who declare goods as free or subject only to 10 per cent. duty, which are liable to a higher rate, will incur the penalties prescribed by law.

Articles 8, 9, 10, 11, and 12 provide for carrying into effect and

disposition of receipts.

Article 12 repeals all former laws in regard to free importation for rural estates.

Thos. Simpson, Consul.

United States Consulate, Puerto Plata, San Domingo, August 12, 1887. 94 A—No. 86——11

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## Caterpillar plague in Cadiz.—Consul Ingraham writes:

For some three years past an insect of the caterpillar species, called *Lepidoptera*, of the genus *Liparis*, species probably *salicis*, has made great havoc among the trees, principally the oaks and the larch, in certain towns in the northeast part of

the province of Cadiz, extending to Ronda, in the province of Malaga.

Fruitless attempts have been made to destroy the insect with sulphur and other means, but this year the ravages increase in Arcos, Bornos, Villamartin, Grazalema, Ubrique, and other towns of the Sierra. Villaluenga, where the chief raising is swine, is nearly ruined on account of the destruction of the oak, and the acorns on which they principally subsist.

The civil governor has written and forwarded to the secretary of the interior at Madrid samples of the insect with the trunk of a tree attacked, asking for govern-

ment investigation and aid.

Grasshopper plague in Salvador.—Consul L. J. Du Pré writes, under date August 12:

Through three months grasshoppers ("chapulins") have ravaged narrow districts of Salvador. Their raids are made mainly upon corn (maize) fields and sugar fincas. Rich land owners have induced governmental interposition and the poor "natives" are literally "conscripted" and forced, even at the bayonet's point, to carve out ditches about the broad acres of rich land-owners. Each of the involuntary toilers is paid a real (12½ cents) per diem, a sum supplying tortillas and frijoles enough to sustain life. Ditches 18 inches wide and 2 feet deep are dug about the great estates of the opulent whites, and in these excavations the little "chapulins," each now about one-half an inch in length, perish. These ditches are half filled by daily rain-storms, and when the water evaporates or is absorbed the stench is wide-spread and insufferable. In the vicinity of San Salvador little damage has been done, but the price of corn has been quadrupled. The indigo crop escaped destruction because it matured nearly two months earlier than in preceding years. It is now ready for market, and the volume of production is greater than ever before.

Tradition and oldest farmers tell that these pests formerly appeared at regular intervals of twenty-two years. They came at the proper period, after the lapse of twenty-two years, nine years ago, and here they remain. As soon as hatched they begin to prey upon vegetation about them, moving in vast volumes, all in one direction. They remain upon the ground six months, unable to fly, always marching day and night. They strip the leaves from cornstalks, now and then desolating

a sugar-cane field.

After the lapse of six months these little chapulins become as clouds above Salvador. They drift with air-currents, and finally disappear. Others come, as innumerable as their predecessors, and circling about the brightest, greenest pasturage for a time, descend, deposit eggs in long, narrow holes in the ground, each egg containing from 150 to 800 germs. Doing no other detriment they rise and drift with

the idle wind till they fall dead from among the clouds.

I have seen the very heavens, during three successive midsummer days, obscured in Texas by dense masses of these self-same silver-winged "chapulins," migrating from the tropics to the inhospitable regions of the northwest, where they become food for Navajo and other Indians, providing, as well, famine for buffaloes and antelopes; and I am curious to know whether these "chapulins" of Central America are the "grasshoppers" of the northwest.

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Export of prunes from Trieste.—Consul Gilbert transmits the following:

Number of casks prunes (Bosnian and Servian) shipped from the consular district of Trieste (Trieste and Fiume), from July 11, 1886, to July 3, 1887, inclusive.

[This table is also of interest as showing the number of days necessary to make the passage from Trieste to New York. All so called direct steamers leaving this port for the United States call at intermediate ports of Italy, Sicily, and Spain.]

sailing rieste.	rival ork.	passage.	Name of steamer.	Registered ton- nage.	Casks shipped from—		Shipped by—		y—	
Date of sailing from Trieste.	Date of arrival at New York.	Days of pas			Trieste.	Flume.	Anchor line.	States line.	Phelps' line.	Total casks.
188 °. July 11 Aug. 23 Sept. 29 Oct. 10 Oct. 19 Nov. 6	1886. Aug. 18 Oct. 3 Dec. 13 Dec. 5 Dec. 2 Dec. 22 1887.	38 41 75 54 48 46	Sidonian Olympia Australia Naples India Italia	1,455 1,478 1,592 1,452	509 442 25 150 540 1,265	185 1,120  190 300	694 1,562 25 730 1,565		150	694 1,562 25 150 780 1,565
Nov. 18 Nov. 30 Dec. 7 Dec. 15 Dec. 17 Dec. 81 1887.	Jan. 2 Jan. 17 Jan. 26 Jan. 26 Jan. 25 Jan. 80	44 48 51 42 89 30	East Anglia	1,578 1,802 1,876 1,731 1,711 1,657	1,449 1,010 650 1,682 1,260 2,260	971 499 558 288	2, 131	1,621 2,543	1,010	1,886 1,010 1,621 2,181 1,818 2,543
Jan. 14 Jan. 19 Jan. 20 Jan. 21 Feb. 4 Feb. 9 Feb. 20 Mar. 5	Feb. 17 Feb. 21 Feb. 28 Feb. 25 Mar. 10 Mar. 14 Apr. 7 Apr. 10	84 83 85 85 86 88 88	Caledonia Lisnacrieve Mount Lebanon Kingdom India R. F. Matthews Italia Crown of Arragon	1,896 1,981 1,555 1,414 1,599 1,210 1,452 1,486	1,655 400 1,050 908 1,462 600 1,246 1,175	1,878 1,145 281 1,280 640	1,655 2,195 1,748 1,886 1,175	1,880	908	1,655 2,278 2,195 908 1,748 1,880 1,886 1,175
Mar. 18 Apr. 4 May 20 June 21 June 23 July 8	Apr. 10 Apr. 2: May 6 June 21 Aug. 29 Aug. 4	86 83 81 85 81	Crown of Arragon. Castledale Utopia Newcomen Catania Norwegian bark India Olympia	1,582 1,781	721 1,895 368 772 250 800	971 894	1, 175 721 1, 895  250 694		368	1,175 721 1,895 971 868 773 250
Total			23, 494	11, 182	20, 807	9, 298	4,254	84,626		

About 8,000 casks of the crop of 1886 still remain unsold. The crop of the present season in Bosnia and Servia is stated to be a fair average one.

Decree relating to international exhibition of machines and appliances for drying fruit at Portici, Italy.—Vice-Consul-General Wood, under date of August 29, 1887, transmits the following:

#### [Translation.]

Whereas a royal decree dated June 19, 1887, by which there is established an international exhibition and competition of machinery and appliances for drying fruit; Whereas, article 3 of the above-mentioned royal decree provides that by ministerial order the conditions of this exhibition and competition shall be specified;

I, on the proposal of the director-general of agriculture, do decree:

(1) The international exhibition and competition of machinery for drying fruit will be opened at Portici, at the Royal Superior School of Agriculture, on the 15th of September, 1888, and will close not later than the 15th of October, 1888.

(2) Inventors, manufacturers, or agents, Italian or foreign, may take part in the

(8) Agents (depositari) of fruit-drying machines, constructed in Italy or abroad, will be considered the representatives of the manufacturers, and they being recognized as the exhibitors, to them in case of awards will be consigned the prizes.

(4) A committee of direction will provide for the success of the exhibition and

competition.

(5) The committee will be composed of a professor of agriculture and a professor of agricultural, mechanics of the Royal Superior School of Agriculture at Portici, of a delegate from the council of direction of the said school, and of two other delegates chosen from the ministry of agriculture, industry, and commerce,

The committee will elect a president from their own number.

(6) The prizes offered for this competition are: One gold medal, with a purse of 500 lire (\$100); two silver medals, with a purse of 200 lire (\$40), accompanying each medal; and four medals of bronze.

The minister of agriculture, industry, and commerce will purchase two of the

drying machines to which prizes may be awarded.

(7) Other than complete drying machines, and such as can be submitted to any trials, shall not be admitted to the exhibition and competition. Competitors presenting apparatus in a condition of simple drawings are also excluded.

(8) A special jury chosen by the ministry will award the prizes.

(9) Prizes can not be awarded to any machines not effectively tested by the committee of judges and found to be preferable by reason of their regular drying and economy of service. If the apparatus is not in the exhibition but is in use in other places, the jury, when recognizing the necessity, can delegate some of its members to visit the place designated by the exhibitor and there proceed to make the the necessary trials.

(10) Drying machines will be subjected to all such trials as may be established by the jury. To facilitate trials the jury may appoint supplementary members in case

of need.

(11) The transportation of machines to Portici, and as well as their return, will be at the expense of exhibitors, who, however, will be entitled to a reduction in carriage by rail or steamship lines, both for their machines and for themselves, their representatives, and their workmen.

(12) The expense of the trials will be borne by the ministry of agriculture.

(13) Requests for admission to the exhibition and competition must be presented to the committee of direction not later than July 31, 1888. Competitors must accompany requests with such technical information and descriptions, and if possible also drawings of the drying machines they intend to enter, indicating space occupied, weight, price, and quality of fuel, and also the amount of daily labor required. A separate request must be made for each machine to be entered, although several may belong to the same competitor.

(14) Machines will be admitted which have already won prizes at other competitions, but a new award can not be made to such machines unless they have been modified in an important manner, or if former awards were of an inferior degree to the prize they may win in this trial; when judged worthy of a prize equal to that

already obtained, they can only receive a certificate of confirmation.

(15) On receipt of requests for admission the committee of direction will notify competitors of their acceptance, give them all necessary information, and forward blank forms for the regular shipment of machines, and to entitle them to the reduction allowed on freight and passenger fares.

(16) Each machine must be worked by its maker or by his duly authorized agent, who must give the jury any information required. Should the exhibitor or his agent fail to appear at the trial, his machine can not be tried, and will be considered out-

side of competition.

(17) The committee of direction will not assume any responsibility for damages to machines during transportation, or at the trials.

(18) The jury will establish regulations to be followed during the trials, and rules governing the award of prizes.

(19) Within a month from the close of the exhibition and competition, the jury must present to the ministry of agriculture a detailed report, with illustrations of the most notable machines which have obtained prizes.

(20) The competitive trials will close with the award of prizes. The chairman of the jury will announce the name of each exhibitor to whom awards have been made, and in brief terms state on what grounds such prizes have been given. The president of the commission will summarize the results of the trials, indicating the merits and defects of machines and the teachings which may be drawn from the competitions.

(21) The committee of direction are authorized to issue all such further regulations as they may deem necessary, and to which all competitors must conform.

Rome, June 19, 1887.

German law on butter substitutes.—Vice-Consul-General Versen sends the following translation of an act relative to the traffic in substitutes for butter, approved July 12, 1887:

SECTION 1. The business rooms and other selling and market places at which "margarine" is dealt in or placed on sale shall bear on prominent places the distinct indelible inscription, "Sale of margarine."

"Margarine," in the scope of this act, shall be those preparations similar to milk

butter the fatty contents of which are not exclusively derived from milk.

SEC. 2. The admixture of butter with margarine or other table fats for the purpose of carrying on trade in those admixtures, as well as in dealing in or placing

same on sale, shall be prohibited.

Under this provision shall not come the admixture of butter fat originating from the application of milk and cream in the preparation of margarine; provided, however, that no more than one hundred parts of milk in weight, or ten parts of cream in weight, in one hundred parts of weight of fats not derived from milk shall find application.

SEC. 3. The vessels and exterior coverings in which margarine is dealt in or placed on sale shall on prominent places bear a distinct and indelible inscription which

contains the denomination of "margarine."

If margarine is dealt in or placed on sale in whole casks, kegs, or cases, such inscription shall additionally contain the name or the firm of the manufacturers.

In retail margarine must be delivered to the buyer in a covering which bears an inscription containing the denomination of "margarine," and the name or firm of the seller. If in trade margarine is sold or placed on sale in regularly formed pieces, the same must be cubic-shaped, having the above inscription impressed, if they are not provided with a covering bearing this inscription.

The federal council shall have the right for the carrying out of the provisions in clauses 1-8 to issue orders to be published in the bulletin of laws of the Empire.

SEC. 4. The provisions of this act shall find no application to such productions

described in section 1, as are not intended for human consumption.

SEC. 5. Contraventions to the provisions of this act, as well as to the orders of the federal council to be issued in conformity with section 3, shall be punished with a fine within one hundred and fifty marks or with imprisonment. In case of repetition it shall be passed upon a fine within six hundred marks or imprisonment within three months.

This provision shall find no application if since the time in which the penalty for an anterior infringement shall have been suffered or abated three years shall have

lapsed.

Besides the penalty, confiscation of articles sold or placed on sale contrary to these provisions can be passed upon, no matter whether or not such articles belong to the convicted persons.

If a prosecution or conviction of a certain person should not be practicable, a

confiscation can be sentenced independently.

SEC. 6. The provisions of this act relative to the traffic in articles of food consumption and in general domestic use, of May 14, 1879 (Reichs-Gesetz-Blatt, p. 145), shall not be affected. The provisions in sections 16 and 17 of same shall be applicable also in case of contraventions to the provisions of the present act.

SEC. 7. The present act shall take effect on the 1st of October, 1887.

[Publication of the chancellor of the German Empire relative to provisions to carry out the act touching the traffic in substitutes for butter, July 26, 1887.]

To carry out the provisions contained in section 3, clauses 1 to 3, of the act in relation to the traffic in substitutes for butter, July 12, 1887, the federal council, in conformity with section 3, clause 4 of this act, has resolved upon the subsequent relations and rules:

(1) For the marking (as prescribed by section 3, clause 1 of the act relative to the traffic in substitutes for butter, July12, 1887) of the vessels and exterior coverings in which margarine is sold in trade or placed on sale, the inclosed pattern shall be taken as model, provided that the length of the frame surrounding the inscription shall be no greater than five times its height, and in no less than 30 centimeters and no more than 50 centimeters.

(2) The name or the firm of the manufacturer (section 3, clause 2 of the act) shall

be attached immediately over, under, or laterally to the said inscription.

(3) The inscription (clauses 1 and 3) shall be attached by burning or painting. In the latter case the inscription must be made with black colors on white or light-

yellow ground. Up to the 1st of April, 1888, it shall be permitted to attach the inscription on labels to be pasted on.

(4) The inscription (Nos. 1 and 2) shall be fixed on the sides of the vessels at at least two opposite places; in case of vessels having a cover, also on the upper surface of the cover, and in case of casks, kegs, and the like, upon the bottoms.

(5) The provisions under Nos. 1 and 2 shall, in the meaning of this act, find application to the coverings used in the retail of margarine (section 3, clause 3), pro-

vided that the length of the framing shall be no less than 15 centimeters.

(6) To the marking of the cubic-shaped pieces (section 3, clause 3), provided that there shall be no restrictions as to the size (length and height) of the framing, and that it shall be perm tted to divide the word "margarine" into halves, to be placed one under the other and to be connected by hyphens.

Berlin, July 26, 1887.

VON BOETTICHER.

## Coloring oleomargarine.—Consul Mealey, of Munich, transmits the following:

The subject of a law concerning the trade in oleomargarine was referred to a commission of twenty-eight, who have finished their investigations and consulta-The examinations which were made are rather favorable for the use of oleomargarine, and the health department has already acknowledged the value of their conclusions, published on the 22d of March, 1887, concerning oleomargarine. That report says: "This product is made in great part from such proper ingredients as are useful in nourishment, namely, the fats or greases; and therefore it is of importance, as it furnishes to the poorer classes a substitute for butter which is cheaper and at the same time nourishing. We think that this want has been supplied in a most satisfactory manner by the manufacture of artificial butter. And it is offered in the markets in a condition superior to natural butter as far as cleanliness and careful preparation is concerned." Although we can agree with the judgment of the royal health department that oleomargarine is a desirable addition to the food supply, yet the object of the law about the traffic in oleomargarine is to be commended, viz, to abolish the extended adulteration of natural butter with oleomar-To accomplish this many propositions have been made about the coloring of oleomargarine so that it will be impossible to substitute oleomargarine for natu-

In this connection a discovery made by Dr. Fr. Soxhlet, professor in the technical high school and chief of the agricultural experimental station in Munich, is particularly interesting. Starting with the idea that any intense coloring matter would cause a deterioration in oleomargarine, both in delicacy and in nourishing qualities, Professor Soxhlet proposes to add a harmless substance in small quantity, which shall in no way change the color, taste, or smell, or usefulness of oleomargarine, but which, while it can not be removed from the oleomargarine, will yet furnish every one with an easily applied test, so that if only one-tenth of the mixture is oleomargarine it can be at once discovered. The professor recommends as such a substance phenol phtaline, one gram for 100 kilograms of oleomargarine.

A piece of oleomargarine, treated thus with the phenol phtaline as large as a pea, if put on a plate with a drop of common household lye, soda, potassi, or spirits of sal ammonia, and rubbed together well, will immediately give out an intense bright-red color in the piece thus treated. A little cigar ashes made wet, rubbed with the oleomargarine and pressed between folds of white blotting paper, shows a red spot on the blotting paper. The lye and sal ammonia give a more intense and lasting red color. The test is as simple as the well-known litmus-paper test.

Every market-master can make hundreds of such examinations in a short time, and every consumer is furnished with an easy and infallible test. This manner of preparing the oleomargarine with the phenol phtaline does not affect the artificial butter at any stage of its manufacture or at any time in its use. The color never comes out uncalled for, and in preparing meals it does not come in contact with strong alkalies, and so does not discolor.

By this new discovery the principal reasons for the prohibition of the manufacture

of oleomargarine have been removed.

## Vital statistics of Munich.—Consul Mealey writes:

The report of births, deaths, and marriages in Munich for the year 1886 shows the following items: 9,255 children born alive, 4,749 male and 4,506 female. Of these, 6,385 were legitimate and 2,870 were illegitimate. The percentage of illegitimate children born in 1886 is greater than for any year since 1877, it being, for 1886,

31 per cent. There were 2,154 marriages, the greatest number of marriages in any one year since 1877. There were 289 children born dead. Among the births reported for 1886 are 110 cases of twins and two cases of triplets. The youngest mother of an illegitimate child was in her fifteenth year. In the lying-in hospital, or woman's clinic, 803 children were born, 696 being illegitimate. The deaths for the year 1886 numbered 7,846, of which 3,073 were children under one year; more males than females died during the year. Average age of those who died, 26.19 years. There were 64 suicides, of which 53 were males and 11 females.

Exports from Kingston, Canada.—Under date of October 13, 1887, Consul Twitchell transmits the following:

The exports from this district for the year ending the 30th of September, 1887. show a decrease of \$458,744.29, which is more than accounted for by the diminished

export of barley.

The export of lumber and mica will doubtless increase the coming year. The mining and exporting of iron ore are evidently not profitable under present conditions; the mining companies, in my opinion, are kept in existence on the anticipated change in the American tariff, by which iron ore may enter free of duty.

The imports from the United States for the year ending the 30th of June, 1887, amounted to \$867,035, against \$877,243 for the year preceding; imports from other

countries, \$351,605, against \$304,365 for the preceding year.

The agricultural interests of this district, in the memory of the oldest inhabitants,

have never been worse.

The products of the farm, excepting butter and cheese, will not average a half crop; barley is a little above but other grain is much below the average half crop.

Quite a movement of live stock, in poor condition, has commenced for the United

States on account of lack of feed to keep it here during the winter.

The prospect of all trade the coming year is exceedingly dark and discouraging, intensifying beyond anything which I have ever seen the hope for some change in the commercial relations of the United States and Canada by which the Canadian may secure a market for his raw material.

Present condition of the woolen trade.—Consul Williams, of Rouen, transmits the following:

The trade continues good in the centers where textures made from carded wool

are produced.

In the north the manufacturers of plain woolen cloth are suffering from having too much of it on hand. At Roubaix and Tourcoing they have had to shorten their hours in some factories. The new fancy tissues, on the contrary, are much in demand. At Fourmies spinning continues regular, but at a loss of 7 per cent. The general opinion is that less should be manufactured, or by the end of the year the prices will be reduced to almost nothing, or else a stoppage will be necessary. A decrease in the amount manufactured, now that the hand-weavers are at work, would have a better result. At a meeting of manufacturers of Fourmies it was agreed to work ten hours a day, or sixty hours a week.

During the seven months of this year Belgium imported 483,360 kilos of woolen yarn, 1,825,680 francs' worth of woolen tissues, cloth, cassimeres, and similar textures; 816,580 francs' worth of coatings and heavy woolen goods, and 8,746,590 francs' worth of light woolen tissues. The exports consisted of 6,646,670 kilos of woolen yarn, 817,630 kilos of woolen tissues, cloth, cassimeres, and similar textures, 103,050 kilos of coatings and other heavy woolens, and 269,690 kilos of light woolens.

The spinners of Bradford certainly are unfortunate. The exporters buy with caution, not at a discount, still at rates lower than the current price of wool. The trades are not filled, still there seem to be fears that the amount manufactured will

be more than the demand.

Mohair thread is in a more flourishing condition,

An improvement is felt at Rochdale in flannels; the colder weather has made the merchants urge the fulfillment of their orders, while others press eagerly to have their delayed orders filled.

The French wheat crop of 1887.—Consul Roosevelt, of Bordeaux, transmits the following:

From authentic information received regarding the wheat crop of France for the year 1887 it appears that an increase of acreage was devoted to the cultivation, and the yield is estimated at 117,782,910 hectoliters (or about 331,123,784 bushels), which is an average of 16.09 hectoliters to the hectare. The crop in seven departments is

prime, good in forty-eight, middling in twenty-two, one of which is the Gironde, and mediocre in ten. According to official valuation the harvest of 1886 was estimated at 105,412,370 hectoliters. The yield of 1887, therefore, shows an increase of 12,320,540 hectoliters. In certain departments the wheat is from 7 to 10 degrees heavier than that produced last year in the same localities. Averaging the entire yield, good, middling, and indifferent, the estimate is 5.63 degrees superior to the crop of 1886, rated at 74.50 kilograms to the hectoliter. The present crop is estimated at 78.50 to 79 kilograms, or, to be more exact, 78.75 to the hectoliter.

Taking the yearly average yield, the harvest of 1887 shows an increase of 15,004.024 hectoliters, and in weight 13,356,648 quintals; calculated as rendered into flour,

9,883,916, and into bread, 12,849,091 quintals.

The 117,732,910 hectoliters of wheat harvested this year will produce 68,608,854 metrical quintals of flour, which will give 89,191,510 metrical quintals of bread. France has this year, according to official statement, produced more than sufficient wheat for home consumption. This fact, however, will not prevent transactions in this cereal with other countries. Mills must be employed, and the necessity for speculation will demand the importation of five or six million bushels.

Grant for invention of machinery for thrashing pease.—Consul-General Morgan transmits the following extract from Government Gazette, Melbourne, August 15, 1887:

Grant of £150 for invention of machinery for thrashing pease.

(1) A sum not exceeding £150 may be paid to any person or company who shall, in the opinion of the minister of agriculture, produce a machine capable of thrashing within twelve hours 800 bushels of pease without injury thereto.

(2) The reward shall be paid only to the inventor, or his agent, of such machine as shall most cheaply, efficiently, and rapidly perform the work required, and within

the time aforesaid.

(3) Persons intending to compete for the reward must give notice in writing of their intention to the secretary for agriculture, Melbourne, not later than the 24th November next.

(4) One or more trials of the machines shall be made at such place or places and

at such times as the minister may direct.

(5) All costs and expenses of forwarding, attendance, and working the machines at the times to be appointed shall be paid by the persons entering the machines for competition.

(6) The minister may appoint three or more judges to report upon the merits of the competing machines, and a decision of a majority of such judges shall be final.

(7) The judges may recommend payment of an amount or amounts, the total of which shall not exceed £150, to the inventor or inventors, or his or their agent or agents, of the successful machine or machines, such amounts to be apportioned to the value to the colony of the said invention or inventions.

JNO. L. Dow, Minister of Agriculture.

MELBOURNE, July 19, 1887.

Increased duties on sugar and lumber in Victoria.—Consul-General Morgan, of Melbourne, under date of September 6, 1887, transmits the following:

A BILL for granting to her Majesty certain duties of customs in lieu of certain other duties.

1. This act may for all purposes be cited as "The duties of customs act, 1887."

2. In lieu of the duties of customs heretofore chargeable on the articles mentioned in the schedule to this act on importation into Victoria by land or sea, there shall be charged, collected, and paid for the use of her Majesty, her heirs, and successors, the duties of customs specified in the said schedule, subject, however, to any exemptions or remissions allowed or to be allowed under or by virtue of the authority contained in "The duties of customs act, 1883," or under any other act in force relating to duties of customs.

8. The schedule to this act, and everything therein contained, shall be read and construed as part of this act; and all acts done on or after the day mentioned in the said schedule shall be as valid as if this act had been passed and had come into operation on the 27th day of July, 1887, and the duties on all goods, wares, and merchandise imported into Victoria, or delivered for home consumption on and after the date mentioned in said schedule, shall be paid, collected, and recovered, and payments in respect thereof may be repaid and adjusted as if this act had been passed and had come into operation on the 27th day of July aforesaid.

4. This act shall be read and construed with and as a part of "The duties of customs act, 1883," and the said act shall be read as though the duties of customs hereby imposed were, from the date mentioned in the schedule hereto, imposed by the second schedule of the said act.

#### SCHEDULE

In lieu of the duties of customs heretofore chargeable on the following articles: 8. d. Timber: Dressed or planed......per 100 feet super.. 16 10 **5 0** charged on the following articles on importation into Victoria, whether by land or sea: Timber: Flooring-boards, weather-boards, and lining-boards, dressed or planed, per 100 feet super...... 16 Moldings, 3 inches and under, wholly or partly prepared, per 100 feet 40 pared .....per 100 feet lineal.. Skirtings, wholly or partly prepared......do.... Doors, 14 inches and under .....each.. 5 0 Doors, over 11 inches and under 12 inches ......do... Doors, 1‡ inches and over......do... 10 0 Dressed pickets.....per 100.. All other timber under 7 inches x 21 inches not otherwise enumerated (excepting kauri, cedar, and black wood, undressed timber, and American white pine, California redwood, and sugar pine, 1 inch and over; undressed, sycamore, oak, ash, whitewood, and hickory, which shall be free).....per 100 feet super.. In lieu of the duties of customs heretofore chargeable on the following article: The following duties shall, on and after the 27th day of July, 1887, be charged on the following articles on importation into Victoria, whether by land or sea: Sugar, the produce of sugar-cane.....per cwt... **3 0** Sugar, the produce of sugar-cane, bonded on and after the 27th day of July, 1887, and refined in Victoria in a bonded warehouse under reg-

## Frauds in Tientsin exports.—Consul Smithers sends the following:

ulations to be framed by the governor in council ......per cwt...

Sugar, the produce of beet-root, and all other sugar.........do....

Information has been recently received in Tientsin, from London, that frauds have been committed by the Chinese manufacturers in straw braid, and in other native produce shipped at Tientsin during the present season. It is alleged that much of the large stock of straw braid exported has become unmerchantable, by reason of damp bundles having been packed with the dry and the use of sulphur for bleaching and pernicious dyes for coloring. It is reported that upon many of the shipments of straw braid to London there has been a total loss, The editor of the Tientsin Times, in alluding to these frauds, has the following:

"What with the bad condition of much of the stock, the growing frauds of the Chinese in giving short measure, irregular makes, inferior straw, bad dyes, mixture of inferior bundles with the better kinds, the Tientsin trade is in a bad way, and as all shipments from China are now and justly regarded with distrust by the home dealers, it seems likely that business once so promising will come to an end."

It also appears that frauds have been practiced in shipments of hides from Mongolia, camel's and sheep's wool, horse-hair, bristles, etc. It is said that the hides were generally found to be wormy, and the camel's hair and wool loaded with sand to the extent of 83 per cent. As large shipments in these products are being made to the United States, and as similar complaints are likely to arise in the markets there as in London, I would suggest as a remedy for the future trade that our merchants instruct their agents here to be more careful in their purchasse and reject any merchandise not entirely sound or otherwise faulty. This would compet the Chinese native traders to desist from their malpractices.

325-5-9

## BIMETALLISM IN EUROPE.

## REPORTS

FROM THE

## CONSULS OF THE UNITED STATES.

No. 87.-DECEMBER, 1887.

WASHINGTON: GOVERNMENT PRINTING OFFICE. 1887.



### CONSULAR REPORTS

ON

# COMMERCE, MANUFACTURES, ETC.

No. 87.-- DECEMBER, 1887.

### NOTE.

While the production, commerce, and general economic conditions of the precious metals have not been fully treated in the Consular Reports, there have been many references to these matters—references that would require much study and research to fully comprehend. To make good the omissions, and also to supply material for future reference, it has been deemed advisable to print Mr. Atkinson's report and Prof. Taussig's translation of Dr. Soetbeer's "Materialen" in the series of Consular Reports.

W. C. F.

Message from the President of the United States, transmitting letter of the Secretary of State inclosing report of Edward Atkinson on bimetallism in Europe.

To the Senate and House of Representatives:

I transmit herewith a communication from the Secretary of State, accompanied by the report of Mr. Edward Atkinson, of Massachusetts, who was specially designated by me, under the provisions of successive acts of Congress in that behalf, to visit the financial centers of Europe in order to ascertain the feasibility of establishing, by international arrangement, a fixity of ratio between the two precious metals in free coinage of both.

GROVER CLEVELAND.

EXECUTIVE MANSION,

Washington, December 20, 1887.

To the President:

In furtherance of the objects heretofore set forth in the resolutions of Congress to obtain an international ratio under which the use of bimetallic money should be secured, I have, under your instructions, kept in view the uniform purpose and policy indicated by Congress, and accordingly in March last, under your direction, I sought and obtained the services of Mr. Edward Atkinson, of Massachusetts, a gentleman especially qualified for the examination of public economies, to obtain abroad the information required for the elucidation of the important question referred to.

Mr. Atkinson was therefore instructed by me in substance, that you considered it your duty to obtain for the benefit of the American people the best information and most reliable knowledge on the subject to be had in the official and financial circles of the leading European

states—notably, England, France, and Germany.

To this end, it was believed that, being especially accredited to the American ministers abroad, and aided by their introduction personally to such European officials with whom he might consider it discreet and expedient to consult, he should obtain the most intelligent and authoritative opinions upon the present status and probable future of the two metallic currencies, with a view to the retention of both the precious metals in full legal-tender coinage.

Mr. Atkinson's suggestion as to the probable increased use for silver coins to meet the expanding commercial demands of the new and vast semi-civilizations in both hemispheres, proceeding pari passu with their production of raw or partly manufactured materials, were considered impressive, and capable of being used with important effect in shaping that consensus of opinion among the commercial states which may enable them to arrive at a common ratio of acceptance of the two precious metals.

Mr. Atkinson was further informed that you felt it to be your duty to relax no effort to effect a co-operation among the leading commercial nations to establish such a fixed international ratio of universal equivalent between the two precious metals as will permit the free coinage of gold and silver alike.

The important duty thus indicated was undertaken by Mr. Atkinson, and every aid and facility given to him by this Department to enable

him to accomplish satisfactorily the end in view.

Mr. Atkinson has executed the duties thus devolved upon him and made report thereon to you, which I have now the honor to submit, together with certain addenda which contain much information collected by him in relation to the subject.

It is believed that no contribution to the knowledge of this important subject will be found to be of greater value than that of Prof. Adolph Soetbeer, in his treatise upon "The materials towards the elucidation of the economic conditions affecting the precious metals and the question of standard value."

Following the earnest recommendation of Mr. Atkinson, I have obtained an accurate translation of this work by the hand of a distinguished scholar and political economist, Prof. F. W. Taussig, of Harvard University.

All of which is now respectfully submitted.

T. F. BAYARD.

DEPARTMENT OF STATE,

Washington, December 20, 1887.

BOSTON, MASS., October 1, 1887.

### TO THE PRESIDENT:

SIR: Having been requested by you, through the Secretary of State, to visit Europe during the past summer in order to investigate the status of bimetallism, I beg leave to report:

Under instructions from the Department of State, I have visited London and Manchester, Paris, Berlin, Brussels, and Amsterdam, together with other places as circumstances or the necessity for interviews with

persons of importance in this discussion have made it expedient.

I have met and consulted many of the financial ministers, the chief officers of all the national banks in the countries named, except one, namely, that of Holland; many officers of private banks and many bankers of distinction, most of the members of the Royal Gold and Silver Commission of Great Britain, which is now engaged in the examination of the same question, and lastly, many leading economists, statisticians, and legislators.

The resident ministers of the United States have rendered me every assistance in their power, and I have been everywhere received with the utmost courtesy and attention, as I have reported to the Secretary of

State from time to time in detail.

Owing to the official positions which most of the gentlemen designated now hold, the necessary condition of a full and free exchange of views has been that I should quote no names or individual opinions in my official report. This renders it necessary for me to confine my report to the general conclusions which I have reached, without the citation of authorities.

In presenting this case for discussion, beginning early in June, my method has been as follows:

I have stated that the circumstances of the time in the United States, such as the payment of all the interest-bearing bonds which are now due, the impending contraction of the paper currency by the withdrawal of bank notes from circulation, the probable accumulation of the surplus revenue in the Treasury in the form of legal-tender United States notes or coin and other influences, might soon render important legislation an absolute necessity, both in respect to our monetary system as well as to the reduction of taxation. I next called attention to the fact that in the mean time this contraction of the paper currency might or must in almost any event continue long enough to render the circulating medium of the United States insufficient for the wants of the country. Therefore, a heavy and perhaps long continued draft for gold coin might be made upon the reserves of coin of Europe to fill the gap, which demand soon after began and has not yet ceased.

In view of such prospective legislation in the United States, I have stated that it had become very desirable to ascertain what changes in monetary legislation, if any, were likely to be made ere long in Europe; and it having been confidently represented in the United States that the bimetallic theory was making rapid progress, the main purpose of my mission had been to ascertain the facts. It being important that if any such action were about to be taken by the commercial and manufacturing states of Europe to restore the free coinage and full legal tender of silver at any agreed ratio of silver to gold, suitable measures might be advised by the Executive, or might be taken by the Congress

of the United States, for concurrent action.

I have further stated that if the principal commercial and manufacturing states of Europe had no immediate intention of changing from

the present status of a limited coinage of silver for subsidiary use, the standard of full legal tender being limited in practice to gold coin only, then it might become the true policy of the United States to take action to maintain the gold dollar as the "unit of value" according to the present statute, and for the Executive to recommend to Congress suitable measures, if any further action is necessary, to maintain permanently the present interchangeable quality or convertibility of our currency into gold coin on demand, whether consisting of notes, silver coin, or silver certificates.

From the beginning of my work, early in the month of June, until the present date, I have called urgent attention to two points which I con-

sidered of paramount importance:

(1) That for the reasons given, to wit, the contraction of bank notes through the payment or sale of the bonds which are required as security for their issue, and the withholding of legal-tender notes or coin in the Treasury owing to the rapid accumulation of a surplus, the currency of the United States was steadily tending toward an absolute bullion basis, *i. e.*, tending to consist, for the time at least, mainly if not wholly of paper certificates issued by the Government, sustained in full, dollar for dollar, in specie; which tendency might cause a very heavy and continuous draft on the gold reserves of Europe in the fiscal year from July 1, 1887, to July 1, 1888, if not for a longer period.

(2) That for reasons which will be fully given hereafter, silver had been unduly discredited and depressed in its price as bullion in Europe, while it still retained substantially its full value or purchasing power among the vast populations of other continents, among whom it is and must remain the principal and necessary money metal for use in the

form of coins.

I have therefore submitted the case as one in which immediate action would be desirable if any action were contemplated in Europe for the adoption of the bimetallic system; since the restoration of silver to its full function of legal tender might avoid a financial stringency such as might otherwise be brought about by any important draft upon the gold reserves of Europe.

I have ventured to suggest that if the very able and discreet financial authorities of Europe should now conclude that there were great advantages to commercial and manufacturing countries in maintaining the single standard of legal tender upon gold only, and if no present action were taken for a bimetallic treaty of legal tender, it would not be probable that the United States would surrender its great advantage of position on the same basis, after having established its monetary system on a full and absolute bullion reserve covering its paper almost dollar for dollar and consisting mainly of gold coin. It might therefore happen that the concurrence of the United States, if considered important, would perhaps be more readily secured now than it could be hereafter, if at some future date the bimetallic system or option of legal tender, in either gold or silver, should become desirable to Europeau states.

I have presented these views as impartially as possible to the representatives of both monetary theories, called "Monometalism," and "Bimetallism," and I have sustained them in detail by considerations which are fully given in Appendix A, to which reference is made.

I submit this full statement of my method of procedure in order that no doubt may be felt in regard to my conclusions as to the present status, upon the ground that my own private convictions might have

given a bias to my course.

I have endeavored as far as possible to limit myself to procuring information without making any personal attempt to influence opinion, except to remove what I believe to be the unwarranted discredit of silver and to give to the influences which ought perhaps to operate in advancing the price of silver bullion the prominence which I think is due to them.

Believing most fully that bimetallism exists de facto, and that the use of both silver and gold as monetary metals is an absolute necessity, I have endeavored to direct more attention to the laws of commerce, which in the long run must govern their distribution and circulation, lest the discredit of silver and the local depreciation in its gold value should be increased and prolonged by misdirected efforts to restore silver to its former ratio, resting wholly upon statutes of legal tender.

Admitting most fully the evil, both present and prospective, growing out of the change in the ratio of silver to gold in the last few years in the principal financial centers, and especially in London, and in view of the fact that the continued coinage of standard dollars, even at only the present rate, will slowly but surely bring the money of full legal tender in the United States to the standard of silver only, at whatever ratio to gold it may then bear, it has seemed to me suitable to use every means in my power to remove the discredit of silver and to call attention to the powerful forces which are now just beginning to act, but which cannot fail to increase the demand for silver coin over great continents.

I have reason to believe that my efforts in this direction may have partly removed the dread of a prospective "avalanche of silver," as it is sometimes called, from the continent of North America, especially from the United States, and that this fear, which has been perhaps the most potent cause of the unwillingness even to consider the question. of bimetallism, may be wholly removed by the further investigation as to the relative production of silver and gold which may ensue. Another dread may also have been removed, to wit, that of a sudden change of policy in the United States leading to the cessation of silver. coinage and also to the possible attempt to dispose of a considerable part of the present stock of silver coin. The people of Great Britain are so wholly unaccustomed to the use of any representative paper money of less denomination than the five-pound notes of England or the one-pound notes of Scotland, that I think there has been no real appreciation of the manner in which the silver certificates of the United States have passed into the circulation, or how easily they are now maintained at par in gold, taking the place of bank notes as they are disused and of legal-tender notes as they may be of necessity rather than choice withheld in the Treasury.

While I can not hold out any prospect of any present action for restoring the free coinage or full legal tender of silver, I may perhaps be justified in the discharge of the duty imposed upon me by having removed certain very great misconceptions which have prevented a true consideration being given to the question at issue, and perhaps it may have fallen to one who had not been identified with the advocacy of a bimetallic treaty of legal tender to do what those who rest the value or ratio of silver to gold almost wholly upon statutes or treaties might not have accomplished.

Having thus stated how I have endeavored to perform the duties as. signed to me, I now report that in my judgment-

(1) There is no prospect of any change in the present monetary system of European states which can modify or influence the financial policy of the United States at the present time.

(2) There are no indications of any change in the policy of the financial authorities of the several States visited by me which warrant any expectation that the subject of a bimetallic treaty for a common legal tender, coupled with the free coinage of silver, will be seriously considered at the present time by them.

(3) There is no indication that the subject of bimetallism has received any intelligent or serious consideration outside of a small circle in each country named, as a probable or possible remedy for the existing causes

of alleged depression in trade.

(4) There is no considerable politically organized body of influential persons in either county with whom a combination could be made, if such a combination or co-operation were desirable on the part of a similar body in the United States, for promoting any definite or practicable measures of legislation to bring about the adoption of the bimetallic theory according to the commonly accepted meaning of that term. The discussion is as yet almost wholly personal, and without concentration of purpose or the presentation of any well devised measure capable of being acted upon.

The exact status of the question is as follows: What is known as the bimetallic theory of coinage and legal tender may be said to be adhered to in principle by France and by the other members of the Latin Union, but the free coinage of silver cannot be resumed without the con-

currence of Germany.

Spain, which does not belong to the Latin Union, continued the free coinage of silver until quite a recent period, but has been compelled to cease by the constant drain of gold.

Holland, as I am informed, waits events, under acts which will enable her authorities to maintain the gold standard without further legisla.

tion if it should be imperiled. See Appendix B.

There is some apparent difficulty in France, but not much, in maintaining the present large volume of silver coin, which is of full legal tender substantially at par in gold. The volume of this currency is · large, but the habits of the people of the Latin Union, especially of France, render a very large volume of actual money in circulation an absolute necessity, much larger per capita as compared with the amount in other great commercial and manufacturing countries. Personal credit is very limited; the use of checks, even for the payment of considerable sums, such as the rent of houses or apartments in Paris, is almost un-Daily purchases of the means of subsistence are paid for in money, and great sums are hoarded. The payment of so much of the indemnity required from France by Germany, after the Franco-Prussian war, as was paid in actual coin, is assumed to have been almost wholly derived from the hoards of coin previously held by the people, who then subscribed in such ample measure for the rentes. Hence the silver coin keeps in circulation or is hoarded, while the banks and bankers of France are sustained by a very large reserve of gold.

There is a strong minority of able men in France, however, who advocate the maintenance of the single standard of legal tender in gold

coin only.

Germany cannot or will not take up the consideration of any change in her present acts without the concurrence of Great Britain. The discussion of the theory of bimetallism is actively continued in an academical manner by the professors of her universities; but in March last, at a convention of delegates, the various chambers of commerce, which are very important representative bodies, declared against any change in existing acts by a vote of 71 chambers to 4. Vide report of her Britan-

nic Majesty's Consul Strachey, of Dresden, to the Government of Great Britain, a copy of which is submitted herewith.

Great Britain awaits the report or reports of the Royal Commission on Gold and Silver, which has adjourned until the autumn or winter, after the examination of sundry witnesses whose testimony has been

published, a copy of which is submitted herewith.

The possibility of a bimetallic treaty without the concurrence of Great Britain has been suggested, but it has apparently no prospect even of consideration in Germany, and very little elsewhere. At every point, and by the representatives of every phase of opinion on the continent, I was assured that the continuance of the present status or the future adoption of a bimetallic system of legal tender virtually rested upon the action of Great Britain. I beg to say, however, that these opinions are not based upon any official statement made to me by any officer of any Government. It therefore becomes most important to give the exact status of the question in England, and to this matter I have given very close attention.

The advocates of the optional or alternate legal tender of gold or silver at an agreed ratio, commonly called bimetallists, are zealous, sincere, active, and aggressive. The advocates of the single legal tender of gold coin, commonly called monometallists, are at present rather passive and inert than active in opposition, relying more upon the innate conservatism of the English people than upon positive defense of

their theory and practice at the present time.

The bimetallists have brought to their support the East Indian civil and military officers who maintain their families in England, and who are obliged to remit depreciated rupee paper to London; also a portion only of the manufacturers and merchants, especially of Lancashire, who have been exposed to more or less difficulty and expense in realizing the proceeds of their goods, which are exported to the East. Outside of these two classes, who have, or are assumed to have, a direct personal interest in the matter, the great body of the English people are apparently indifferent or else are ignorant of the subject. Bimetallism has not yet become a live question of any great parliamentary or political importance.

Some of the most zealous bimetallists earnestly believe that the present great depression in English agriculture is due mainly to the low price of wheat, and that the price of wheat is established by the competition of India; furthermore that the depreciation of the silver rupee in London works a corresponding bounty upon the export of East India produce, it being alleged and apparently proved that in the domestic traffic of India the rupee retains its former purchasing power, or very

nearly so.

It is held by many persons who do not accept this reasoning that if the advocates of the bimetallic system should create a popular impression that the present depression in the price of agricultural products could be imputed to this cause, then the issue might at once assume a parliamentary and political importance which it has not yet attained. This might again be hastened if the prospective draft of the United States should make such an apparent scarcity of gold, even for a limited period, as to sustain the view that it is gold which has appreciated, and not silver which has depreciated.

If, on the other hand, the deficient crop of Indian corn in the United States in the present year, or any other cause, should change the conditions and tend to put off this strain upon the gold reserves of Europe by diminishing our exports while our imports are increasing, it is held

that the consideration of the silver question would remain substantially as it now is, awaiting the report of the Royal Commission, after which the beginning of a thorough discussion may be reached, in which both sides will be represented.

I submit these various views, which have been derived from many sources, giving my own judgment that no change will occur in the position of Great Britain and therefore of Europe for a long time to come; certainly not in season to affect the present or even the prospective policy of the United States. In such event it may be necessary for the United States to frame any changes in its own monetary system, if any are now advisable, in such a way as may best promote its own interest, irrespective of any prospective change in the policy of any other country. In short, monetary legislation has not yet become a department of international treaty or law.

Having reached this conclusion while treating the subject wholly on the monetary side, and irrespective of the special interest of the United States both as a producer of silver bullion and the owner of a very large quantity of silver coin, it seemed to me to be wholly within the scope of my duty to consider the grounds on which silver has been so much discredited, and to present in as public a way as possible the reasons why an increased demand for silver relative to probable supply may presently restore the price of silver more nearly, if not absolutely, to the price which it bore for many years prior to 1873, to wit, about 60 pence per ounce, or to a ratio of about 15½ to 1 of gold.

I found that so far as any public discussion is concerned on the part of the principal advocates of "bimetallism" little attention had been given to the relative supply of or demand for either gold or silver. This

is due to the fact that they hold that the value of both is due much more, if not wholly, to statutes of legal tender than to relative production and necessary use; in some cases only they allege rather than prove

a scarcity of gold.

On the other hand I found, as I have before stated, among the advocates of "monometallism" a continued and somewhat indefinite dread of an "avalanche of silver" from the North American continent with little, if any, regard to cost of production, and at any price which might be obtained. I had once been myself subject to a similar misapprehension of the probable supply of silver, but had long since laid aside this impression and I was not prepared to find it existing here in such full force.

As it had been the opinion expressed by myself to you some months since that the price of silver might slowly but surely recover in consequence of the increasing demand of the vast population to whom silver is the necessary money metal, which led to my appointment on my present mission, I have taken every opportunity to present this view to the gentlemen with whom I have had conferences and to test it by discussion.

It has been received by nearly every one to whom it has been suggested as a matter of the utmost importance and one which had as yet received little or no consideration. The hope has been expressed that the testimony of experts on the present and prospective product of silver bullion in other countries, especially in the United States, might be taken at the earliest possible day, so that it may soon appear whether or not the reduction in the price of bullion has caused any important cessation in silver mining, and also to what extent productive silver mines have been exhausted.

In order that this matter might be most fully and promptly considered I ventured to accept an invitation to make an address on the necessary existence of bimetallism and the necessary use of both gold and silver as money metals before Section F (Political Economy and Statistics) of the British Association for the Advancement of Science, a copy of which address is hereto appended as a part of this report (Appendix A).

The meeting of the Association also gave me the opportunity to meet many gentlemen of great influence who had taken part in the discussion of this question, and whom I could not have met in any other way without devoting a great deal more time than had been assigned to me

in your letter of appointment.

At this point I might perhaps conclude my report and rest its submission, with the accompanying documents; but there has been a growing impression in my mind, which has become almost a certainty, that there are some further conclusions to be drawn from my experience in this mission, to which the attention of the Government should be called.

The most important point which I beg leave to present is this: I am convinced by my own observation, sustained by the judgment of others, citizens or officials of the United States, whom I have consulted, that it would be unwise and inexpedient for the United States again to take the initiative in promoting action for a general adoption of a bimetallic legal tender, coupled with the free coinage of silver, for the reason that such action is misconstrued and may tend to retard rather than to promote the object aimed at. It may also increase rather than diminish the discredit of silver.

The reason is this: The general conviction among the financial men in Europe is that the United States Government is loaded with an excessive quantity of silver dollars which it cannot get into circulation. These dollars are coined at a standard which is at variance with the silver money of any other country, to wit, at the ratio of 16 of silver to 1 of gold. It is believed that the financial officers of the United States are convinced that the product of silver is excessive, and that the ratio of silver to gold, i. e., its price as bullion, is liable to fall even lower than it is now; therefore any initiative by the United States is looked upon as an attempt to relieve itself of an unprofitable stock and to provide a market for the future product of silver. Any effort of the United States to promote a bimetallic treaty and to restore the free coinage of silver is not therefore regarded as a sincere effort to promote. a better monetary system of which all nations may share the benefit, but rather as being induced by a desire to promote the special interest of the United States at the cost of whom it may concern.

It is utterly impossible for the thoroughly trained and intelligent statesmen of Europe, either bimetallists or monometallists, to comprehend why the United States should continue to coin dollars of the present standard of the ratio of fifteen and ninety-eight one-hundredths (15.98), say sixteen (16) parts of silver to one of gold, which cannot be adjusted by any treaty to the present standard of any silver coin in circulation in other countries without the recoinage of European and East Indian coins. Therefore, when the subject of a common legal tender is suggested, the question comes up about in this way: If the United States really mean what they propose, the coinage of Bland dollars must of necessity be stopped and the coin be withdrawn. For, if free coinage were re-established in Europe, and a treaty of common legal tender were made at the ratio of fifteen and one-half (151) to to one, and if Bland dollars were still outstanding, all these Bland dollars would immediately be shipped to Europe and India, and the United States would be relieved of the burden. On the other hand, the United States could not agree to coin at any higher ratio than, say, fifteen and one-half (15½) to one, without a recoinage on their own part of the dollars now existing at the ratio of sixteen (16) to one. A treaty is impossible except the same ratio be adopted by all the parties thereto.

It will be remembered that long anterior to 1873 a considerable amount of standard silver dollars, of the same weight and fineness as those which are now coined, were issued from the mint of the United States; but as the price of silver in Loudon was then a fraction over sixty (60) pence per ounce, these dollars were worth in gold a fraction over one hundred and three (103) cents per dollar. They were all therefore exported to be recoined in Europe at the ratio of fifteen and one-half (15½) to one, or else were melted into plate. It is apparent that if an international treaty for a common legal tender of silver coin were adopted, and the standard coin of Europe were maintained at fifteen and one-half (15½) to one, the present standard dollar of the United States would take the same course as before. It is evident that if the grains of gold which are contained in one gold dollar could be exchanged for silver coin at the ratio of sixteen (16) parts of silver for each unit of gold, while this silver could be converted into legal-tender coin at the ratio of fifteen and one half (151) parts of silver to one of gold in Europe, there would be a constant profit in the exchange of European gold for American silver. On the other hand, if the European States were to adopt a ratio, say, of eighteen or nineteen (18 or 19) parts of silver to one of gold, which plan is now suggested by some of the East Indian bimetallists, then a corresponding exchange of the gold of the United States for the silver of Europe would begin, and such silver would thereafter be converted into coin in this country at the present ratio of sixteen (16) to one, it being assumed that we had then agreed by treaty to free coinage without altering our standard.

It therefore follows that so long as the present coinage of the silver dollar of the United States is continued, no proposition for a bimetallic treaty for the full legal tender of silver coin can be entertained by European states, since they will not consider, under any circumstances, a proposition for the recoinage of their own silver in order to adjust it

to the standard of the United States.

If European nations enter into a bimetallic treaty it might be with the expectation that the opening of all mints to free coinage either of gold or silver in Europe, on a standard of fifteen and one half (15½) to one, would bring the price of silver bullion back to a fraction over sixty (60) pence per ounce. If it did not do so, then it would not have the effect which the advocates of the bimetallic theory expect, and the whole

purpose of the treaty would fail.

In fact, the United States by maintaining the present standard dollar, virtually declare to the public that it requires sixteen (16) ounces of silver to be equal to one ounce of gold. The United States, therefore, to that extent discredit and depreciate silver bullion below the standard formerly in force among European nations, who coined only fifteen and one-half (15½) ounces of silver as the equivalent of one ounce of gold. The present acts of coinage in the United States therefore depreciate silver as compared to the European and East Indian standard.

Men differ as to what the effect of stopping the monthly purchase of bullion would be upon the price of silver bullion. Some of the most ardent bimetallists hope this purchase will be stopped, because they think it would promote a further fall in the price of bullion, create

greater confusion in the exchanges, especially with India, and thus

force action on the part of Great Britain.

Others pay no regard to probable effect, but simply hold that so long as the coinage of dollars at the ratio of 16 parts of silver to 1 of gold continues, while the ratio in substantially all other countries is 15½ to 1, so long will any proposal for a bimetallic treaty on the part of the United States be utterly barred from consideration, if not open to suspicion.

Others hold, with whom I myself fully concur, that in view of the increasing demand for silver, the fall in the price of bullion, if any were caused by the cessation of purchases by the United States, would be

very slight and of very short duration.

I beg leave to submit with this report—

- (1) A copy of the testimony given before the Royal Commission on Gold and Silver.
- (2) A copy of a report on the present state of the question of bimetallism in Germany, by Her Britannic Majesty's consul, G. Strachey, of Dresden.
- (3) A copy of the last edition of the "Materialen," by Dr. Adolph Soetbeer, whose figures are customarily accepted as of the highest authority, the only exception taken to the accuracy of this compilation being in respect to the large estimate which Dr. Soetbeer gives of the consumption of gold in the arts. I earnestly recommend the translation and publication of this document.

(4) A note on the monetary system of the Netherlands, by Prof. H.

B. Greven, which I also recommend for publication.

(5) My own address before Section F of the British Association for the Advancement of Science.

Very respectfully, your obedient servant,

EDWARD ATKINSON.

### APPENDIX A.

### WHAT IS BIMETALLISM?

[Read before Section If of the British Association for the Advancement of Science, by Edward Atkinson, September 7, 1887.]

This question may perhaps be considered rather a singular one to be asked at the present time, when a royal commission is engaged upon the examination of the subject, at the urgent instance of the advocates of the theory, and with a view to its pos-

sible adoption in Great Britain and elsewhere.

Yet it has been my experience, while myself engaged upon a similar examination, that about nine men out of ten, even of those who might be expected to have some definite views upon the subject, when asked their opinion upon the expediency or necessity of adopting a bimetallic monetary system, will reply, "Oh, that is a very important question, but I do not pretend to understand it."

Yet more strange does this become when men of great intelligence, who hold or who have held high financial position, attribute the fall in prices and the depression in trade, which is said to have existed for several years, to the alleged "demonetiza-

tion" of silver since 1873.

A few persons only will answer on the one side, "that they cannot see how two substances of unequal cost can be made of equal value by legislation." A few others will say, "If money derives its value from acts of legislation, why use such costly materials as either silver or gold; why not use copper or paper altogether?"

On the other side, a good deal of feeling is expressed against those who are said to have "boycotted silver"; whilst those who cannot wholly give up the idea that the cost of production is an element in determining the value even of the precious metals

are apt to be considered rather obtuse in their reasoning power.

The very earnest manner in which the views of ardent bimetallists are presented, and the very sincerity of their own convictions, has led a large number of persons to think that some very grave wrong must have been committed somewhere, which should be speedily remedied by law-makers. Even the poor English farmer who can no longer raise wheat at a profit on leased land, and who cannot make free use of the land for other crops under the present conditions of his lease, is assured that it has not been the extension of the railway system in America and of India and the construction of the Suez Canal that have brought cheap bread to the multitude, but that wheat has fallen in Mark lane from 50 to 34 shillings a quarter, or less, because a silver rupee which used to be worth 23 pence gold in Lombard street will now bring less than 19.

Yet, in the face of this admitted uncertainty, it is expected that public opinion shall be brought to bear upon this subject, and that legislators shall perhaps be compelled by the very force of public opinion to change all the acts relating to coinage, legal tender, and other acts pertaining to money, lest greater disasters should occur than those which have already been imputed to the acts of the several countries by which silver is said to have been "demonetized."

In my own country the case is aggravated by the fact that we possess a considerable number of important deposits of silver ore, from which we annually produce a quantity of bullion, which may bear a ratio to our total annual product of a little less than \( \frac{1}{2} \) of 1 per cent.; which product has cost us (in the opinion of most competent observers), if regard be given to the time and labor which have been devoted to unprofitable mines and to the waste in fraudulent enterprises, at least \$2 in gold value for every \$1 of silver bullion produced.\*

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<sup>\*</sup>Reference is made to the small relative importance of silver bullion in the United States—considered as a national product—not for the purpose of underrating it, but because a false impression prevails in Europe that it has become a branch of industry of great importance, and that we can increase the supply of silver bullion to an indefinite amount, whenever we can find a market for it, at the present or at a very much lower price.

Does not this, in part uncertain and in part intolerant, condition of the public mind lead one to infer that the bimetallic theory has been treated as yet, only or mainly, in an academic way, without much regard to fact; or else in terms which are not common modes of thought or of speech among every-day people? Is not this one of the reasons why many other problems which come in the domain of political economy have been little comprehended by those whose affairs are most directly connected with or affected by them?

If this is so, the remedy may be found in translating the language of the schools and the terminology of the professed bimetallists into the common speech of the

counting-room and of the exchange.

To the mind of the practical business man, whose study of political economy has been primarily based on the observation of events, guided by the principles which have been laid down by Adam Smith and a few great masters—with the use of other books and current treatises merely as secondary aids to reflection—it seems a very mistaken way to discuss bimetallism as a theory, when bimetallism exists defacto in almost every country which has any coin of any kind in circulation, and when it can be observed in all its bearings.

It also seems to be rather a waste of time to discuss either the alleged or prospective demonetization of silver by England, Germany, or any other nation, when silver has not been and can not be demonetized or deprived of its function as a money metal any where; or when the very conception of doing away with silver money is almost unthinkable, so universal is its use. Is not the silver coin which is in your pocket and in mine at this moment money—according to any meaning or definition of that word which has yet been given to it? In the vast majority, in point of number, of every day's bargains or sales, does not silver money do a part or the whole of the work?

It is only when one attempts to pay a debt previously incurred, say of one hundred pounds, by offering two thousand silver shillings, that he may find that silver coin fails in one out of the many functions of money; and he may then become aware for the first time of the grounds on which the bimetallic theory now rests. He may then be informed for the first time that the only money which is entitled to the name is that which has been declared by statute to be a legal tender for deferred payments. May I venture to suggest that the very conception of what is meant by legal tender is something out of the common course of thought. I suppose that not one man in a thousand would know how to make a legal tender without he first took the advice of counsel.

The very origin of legal tender is obscure, if not unknown. I have asked many learned lawyers to tell me when and where an act of legal tender was first applied,

or by whom, and not one has been able to answer.

It is known, however, that money, in the form of coins made of gold and silver, was in use or circulation before acts of legal tender came into force. Nearly all, if not all the original names of such coins show that they were derived from the weight of metal in them, and were intended to indicate it. It may, therefore, perhaps be inferred that the first act of legal tender was conceived in fraud by a despotic government, in order to force a creditor to take less valuable coin than his contract called for. It is well known that some of the basest acts of tyranny have been the forced circulation of debased coin.

It may not, however, be denied that, whether born in fraud and nursed in corruption or not, the function of being legal tender has become a useful if not a necessary function of money; but to attribute the whole power, use, and circulation of money to this single incident in its use seems to me a grave abuse of reasoning, and to weaken

rather than to strengthen the argument for a bimetallic system.

It is held, however, by most conspicuous and able advocates of bimetallism, if not by all, that acts of legal tender are necessary even to the circulation of coined money, of whatever metal it may be made, and that the ratio of either gold or silver to each other or to merchandise, services, or land might be very different to what it actually is, if the law did not force creditors to receive coins of given weight and fineness in payment of debts due to them.

It is also held by bimetallists that if a given ratio between gold and silver shall have been established, say 154 parts of silver to 1 of gold, or any other, and that by agreement among commercial nations either kind of coin shall be a legal tender for debts, then they will become everywhere convertible or interchangeable at that ratio.

It is held that there can be no variation in the rate of exchange between one country and another growing out of the use of one or the other metals as the principal metal, but that, if free coinage is granted to both at the agreed ratio, the only variation in exchange which could be imputed to the quality or kind of metal would represent only the difference in the cost of transportation.

One proposition of that most conspicuous and able bimetallist, Henri Cernuschi, may be most heartily accepted, if all else are rejected (I quote from memory): "That only is good money which will stand the test of fire, and which is worth as much as

bullion when melted as it had been worth in the coin itself."

It is further held that if such a bimetallic treaty of legal tender were made, thereafter the two metals would be as one mass, and that their value or ratio to merchandise or services would be subsequently governed by the joint product or supply of both metals, without being affected by the specific or varying quantity of each which

might be produced in any one year.

Finally, it is held that any subsequent change in the ratio of gold and silver to merchandise and services would be almost inappreciable in any customary period of commercial credits, or in any ordinary period of mortgage debts, railroad bonds, or other commercial obligations; for the reason that the joint product of both metals in any one year bears so small a proportion to the total mass of gold and silver in existence, or in circulation as coined money.

In support of these views the advocates of bimetallism, or, as it might be more properly called, of an alternate or optional choice of legal tender, are apt to say that when silver coin has been deprived of the full power or force of legal tender it has

been "demonetized."

If their proposition can be sustained that coined money only obtains its title to be called money and only circulates as money by the force or power imparted to it by legislation, then they may be right. If it is true that unless coin is a full legal tender it is not money, it may be suitable to affirm that coin can be demonstized by the repeal or limitation of its legal tender quality; otherwise the use of the word demonstized is misleading, and this, it seems to me, is the principal cause of the confusion which now prevails.

The writer found great difficulty in considering these propositions until he took the ground that neither the terms bimetallism nor monometallism, as commonly used, had been rightly applied to the existing monetary condition of nations, and that the

word demonetized had been wholly misapplied.

It must, I think, be admitted that gold and silver had become the customary materials of money—had been endowed with all the functions of money—and had been minted, shaped, stamped, or coined into specific pieces of money of given weight before the conception of an act of legal tender could have arisen. It must also be admitted that both ordinary coin or pieces of silver in other forms, as in China, now circulate as money among nations and races in which there is even now no act of legislation in respect to legal tender.

It must also be admitted that there is now no general act of legal tender which is or can be applied to international commerce, yet international commerce is conducted in terms of money, by the measure of price, and the balances of trade are settled by

the passing over of coined money or its equivalent in bullion.

Lastly, it must be admitted that silver coin still performs the function of money in Great Britain and Germany, as well as in France, the United States, or in Asia, Africa, and South America.

In fact, if we compute transactions, bargains, sales by number rather than by amount, silver is even now the principal money metal of the world, circulating as money more

freely, fully, and widely than gold.

Putting aside, then, the conception that either gold or silver can be demonetized by statute law, and reasoning upon the ground that bimetalism exists de facto in every continent and in every country, may we not bring the question of an international treaty for a common legal tender into a very simple form?

The question may be stated as follows:

(1) Is it expedient for manufacturing and commercial nations to enter into an agreement that all mints shall be open to the free coinage of both gold and silver?

(2) That coins made either of gold or silver at an agreed ratio of weight and fineness shall be a common or universal legal tender according to the weight of metal in them?

(3) Would such an agreement of legal tender reduce the variations in the rate of exchange between one country and another to the cost of moving coin or bullion, plus the cost, if any, of converting the coin of one country into that of another by reminting?

(4) What would be the effect of such a treaty upon the future production of gold or silver, and what would be its effect upon outstanding obligations for the payment

of money at a future date 7

It is quite possible that many persons may be more capable of reasoning upon two subjects, by combining them, than the writer is; but it seems to him that monetary acts relating to coinage, the unit of value, and the like, belong to a very distant and separate department of law from acts of legal tender which relate only to the enforcement of contracts and the liquidation of deferred payments.

It is admitted, however, that the working of one class of acts may be greatly affected by the other, and that good money which will stand the test of fire may be driven out of circulation by depreciated coin or paper substitutes, when the latter are forced into circulation by an act of legal tender. Good money needs no force of law

to assure its acceptance. It is only bad money that requires force.

One can often clear the mind of doubt or uncertainty by inventing hypothetical conditions.

Let us suppose that in place of two metals, one yellow and one white, there had been but one blue metal, equally attractive to the eye, equally fit for ornament, free from oxidation, ductile, and otherwise endowed with the same qualities, and yielded by nature in volume or quantity corresponding to the yield of gold and silver combined. Would not the money of the world have been coined from this blue metal? What place would there then have been for any battle of the standards, or for any act of legal tender, unless the weight or quality of the coin had been debased?

Is not the whole subject, therefore, narrowed down to a single issue: Can two kinds of coin, made of two separate metals, produced under different conditions and at varying cost, if cost be measured in terms of labor, be made one by statute for the purpose of discharging debts, the payment of which has been deferred, and will this statute use of coin for one of the functions of money lead to the customary use of such coin without distinction in all the other transactions in which money is passed from

one person to another?

At present the world may be divided into three sections in respect to statutes of legal tender or of customs possessing the force of such acts. Prior to 1873 the single legal tender of gold was so limited, and the free coinage and full tender of gold was so nearly universal, that the ratio of 15½ of silver to 1 of gold had become almost everywhere established. The whole product of silver could then be converted into coin, and the price of bullion at about 60 pence per ounce in London had become merely an expression of that ratio. Whether this was a consequence of the free coinage or not need not be discussed, the price of silver varied but little, and the small variations were due to special causes.

In 1873 Germany called in its miscellaneous coinage, after a discussion which had continued for ten years, issued new coins of gold and silver, making gold the principal and silver the limited legal tender, and then put upon the market as bullion only that portion of the silver which must previously have been chiefly in the reserves of banks

and bankers, or have been hoarded.

Germany drew gold from the ample stock of the world—there was enough and to

spare, and no great stringency occurred—no sign of scarcity of gold appeared.

This mass of silver offered for sale by Germany came upon the market at a time when the annual product of silver was increasing, and it caused "a scare" very much like that which occurred when the much greater relative increase in the supply of gold caused a similar "scare" about gold. This sum, although small in ratio to the mass of silver in use, was yet a large sum to be disposed of within a limited period. Presently the members of the Latin Union felt compelled to cease the free coinage of silver; this aggravated the scare, and silver became distrusted and discredited.

But is it not an utter abuse of language to say that silver was "demonstized" either by Germany or the Latin Union by these acts? Is not silver money still in circulation in Germany, in Great Britain, in France, and are not the greater number of daily transactions liquidated, paid, or settled by passing silver money from hand

to hand.

Nevertheless the action of Germany and France did cause silver bullion to depreciate in price in the financial centers and as a measure of international commerce. The States of Europe and the United States could not at once increase their consumption and import of the products of Asia, Africa, and South America, where the demand for silver remained constant and the pressure of the stock of silver bullion caused a reduction in its price at the commercial centers. To what extent such a change or depreciation has extended into the interior of the silver-using continents does not fully appear. The testimony is very conflicting, and it is very possible that the bullion price of silver will recover in the financial centers before the purchasing power of silver will have been greatly altered among the thousand million people to whom it is now, and must long remain, the principal money metal.

It may happen that the moderate rise and the hardening market for silver bullion already apparent are mere precursors of a yet greater rise, now that the stock of bullion held by Germany has been disposed of, and now that the increasing commerce of Asia, Africa, and South America is opening a greater demand for silver coin to

meet its requirements.

Witness the recent purchase of silver bullion from Germany even by poor Egypt, in order to enable her coinage to be established. Witness the recent contract in Belgium for coinage for the Congo region. Witness the annual flow of millions of rupees from India into or through Burmah, whence they never return. Witness the movement of silver from France to Tonquin and the demands of Japan. These may be mere straws, but they may also be the beginnings of a change which may be guessed at, but can not be computed.

The world may be divided into two sections by population. The population of Europe, the United States, and Canada number about 400,000,000, but Russia must be set aside as in an intermediate stage. This leaves in round figures about 300,000,000

who may be designated as the machine-using nations, commonly called manufacturing, but who might be more fitly entitled the mechanifacturing people. Their several States are covered by a network of railroads; their banks and banking methods have been well developed; their law of contracts is well established; their margin of profit is very small, and their standard of full legal tender is now gold, the limited coinage of silver being maintained at par in gold.

Russia stands in an intermediate stage in the struggle to emerge from semi-barbarism; she has yet attained few of the advantages of what is called civilization, but has adopted some of the worst of its abpses, notably paper money. Her gold and silver product is, therefore, either hoarded or exported, and Russia may not therefore be counted an important factor in the present discussion, but may become one if she should realize the necessity of establishing specie payment, of which there are indi-

cations that her statesmen appreciate the importance.

In Asia, Africa, South and Central America, Mexico, and Polynesia we find a computed number of about 1,000,000,000 people to whom the modern factory system and the use of machinery or machine tools are almost wholly unknown, and among whom the construction of railways is just beginning to effect a revolution, the scope of which the imagination fails to grasp. Their commerce with the machine-using nations consists mainly in the exchange of crude materials or articles of food which require tropical or semi-tropical conditions, for the finished products of the factory or the workshop. One needs only to name tea, coffee, sugar, hemp, wool, spices, many kinds of ore and timber, indigo, dye-woods, and the like, in order to comprehend the nature of the traffic and the kind of manual labor which must be done in the production of these materials; it may be more or less skilled, but yet always manual labor aided by the crudest machines, in which kind of work low cost and low wages are synonymous terms. In this latter respect differing from the application of modern machinery, in the use of which low cost is compassed by the payment of high wages, both in rate and in purchasing power. The people of these continents know little of banking methods; credit is greatly restricted, but the volume of their transactions is vast. Their principal money metal—their standard of value—is silver.

Silver coin circulates by force of custom rather than by virtue of acts of legal tender, of which they would have little or no comprehension, and the great mass of

silver now in existence is held by the people of these continents or countries.

Now, it happens, in consequence of the duties which are imposed by the United States, by Canada, and by most European countries, upon all or the greater portion of these crude materials or articles of food which constitute the exports of the non-manufacturing and silver-standard countries that the chief market for their products is in England. It is in London that their accounts are settled. London has become the banking center, because it is the trade center of the world, and, therefore, it is also the point to which silver bullion tends, in order that it may be exchanged for the products named. But it further happens that in London silver bullion is met by the competition of India Council bills, drawn in silver rupees, and forced upon the market in liquidation of the obligations of India, at stated periods, and at whatever price in gold the rupee will bring.

How much have the regular and forced sales of these India Council rupee bills

tended to depress silver bullion in the London market?

I have been unable to come to any conclusion as to how much weight should be given to this notable fact, that the heavy loans negotiated in England on behalf of India began to affect the silver market in 1873, and subsequently down to the present time the sale of India Council bills has been about double what it was in an equal term of years prior to 1873; at one time almost stopping the flow of silver into India, and through India into Asia.

It is very well understood by business men that even when there may be no gen-

eral excess of an article there may be a temporary excess at a given point.

Here we had in 1873, and for a few years after, an increasing flow of silver from the mines, and a considerable stream from the banks and hoards of Germany, all working into one spout in London, where it has been met at the little end by an obstruction of rupee bills forced on sale at stated periods. What else could have occurred except a local fall in price? The volume of imports from the silver-using countries could not increase at once, and, therefore, more silver was exchanged for what were needed.

It therefore seems to me that the "silver question," so called, cannot be determined until less attention is given to the bullion price in London and more attention is given to the present and prospective use of silver coin in other countries. Coupled with this the present and prospective supply of silver in ratio to gold must be tak en into account; and, lastly, the effect, if any, of the cessation of the coinage of silver in Europe must be considered, and the establishment of the gold standard in Europe and the United States, upon the earnings and condition of the working people, who constitute the great mass of the population of all countries.

As soon as we enter upon this inquiry we are met by the fact that there has been no actual increase in the production of silver bullion since 1850, in ratio to the mass then assumed to have been in existence, in any measure corresponding to the increase of gold in ratio to the mass of gold previously produced.

According to the figures of the United States Mint, in which the world's product of

silver is rated in standard dollars, the product of gold from—

But it is much more conclusive to make the comparison by weight, and for that purpose reference may be made to the graphical tables which accompany the last edition of Dr. Soetbeer's "Materialen."

His estimate of the production of gold is—

	Kilograms.
1493 to 1850, inclusive	4, 752, 000
1851 to 1885, inclusive	6, 383, 000

A proportion in the latter period over the former of a fraction over 134 per cent. His estimate of the production of silver is—

	Kilograms.
1493 to 1850, inclusive	149, 826, 000
1851 to 1885, inclusive	

A proportion in the latter over the former period of only 391 per cent.

Admitting all the elements of uncertainty in respect to estimates of this kind, yet the facts which are known will justify these proportions as a basis of reasoning. It may also be remembered that the statistics of *production* are commonly accepted as being very near the mark.

The actual sales of silver bullion by Germany in six years, after 1873 to 1879, when her public sales ceased, amounted to 7,104,896,973 grams, or about 11 per cent. on

the product since 1850.

May we not infer that this sale, coupled with the increase in India bills and the increase of bullion produced, has had a local effect only on the London market, and

that these influences may also be temporary?

Reference has been made to the fact that the greater part of the existing mass of silver is now in the silver-standard States and continents. If we assume this to be 80 per cent. of the production since 1493, less waste, we then find that even the entire annual product of silver bears a very small proportion to the whole mass.

Does it not then appear that, when we deduct the silver necessary for subsidiary coinage in the gold-standard countries and the great increase in the demand for silver plate, what remains could not have caused a general depreciation of silver such as appears to be warranted by the fall in the price of silver bullion in London

from 60 pence to the present price of 441 pence.

I am aware that this method of reasoning will be as incomprehensible to such of the advocates of bimetallism as impute the value even of coined money to statutes by which the coins are made legal tender, as their process of deriving value from statutes without reference to the ordinary considerations of supply, demand, and cost of production is incomprehensible to myself.

I think it is, therefore, not only courteous and justifiable, but absolutely necessary to try their processes of reasoning by the consideration which they give to facts which

may be known.

In nearly all the treatises which I have read, the fall in the prices of the great staples of commerce and in all the necessaries of life since 1873 is assumed to have been an evil. Disastrons results are imputed to it, and it again is imputed to the alleged "demonstization," or "outlawry," of silver. By some, but not all, of the writers of these treatises a scarcity of gold since 1873 is also assumed.

In one of the most recent and also historically valuable of these works, The Silver Pound, by Mr. S. Dana Horton, we are told that since 1873 the world has been subjected to certain influences of a malignant character by which prices have been forced down, trade has been depressed, land has been thrown out of cultivation, and various other evils have been incurred.

The writer says that "when prices are falling there is relatively less movement, less production, less consumption, less success in business; there is embarrassment and idleness; there is a prolonged crisis, or what we familiarly call hard times."

He then asks, "What is the cause of this fall in prices since 1872 ?" and he replies: "Evidently the anti-silver laws of the Western nations are the primary, the efficient, and the removable cause."

We are not only told that we have "demonetized," but that we have "outlawed," silver.

If this diagnosis is wholly incorrect, it would not be good practice to adopt a heroic remedy for a non-existent disease. What are the facts?

We may take the experience of the United States, as perhaps the best example; because since 1865 the country has not been disturbed by active war, or by the yet more onerous conditions of the passive war under which most European states are now struggling.

The general fall in prices in the United States began earlier, has been much greater, and has continued longer than anywhere else, because we have been subjected to the admitted appreciation of our paper currency from a depreciation of more than 50 per

cent. to par in gold, as well as to the alleged appreciation of gold itself.

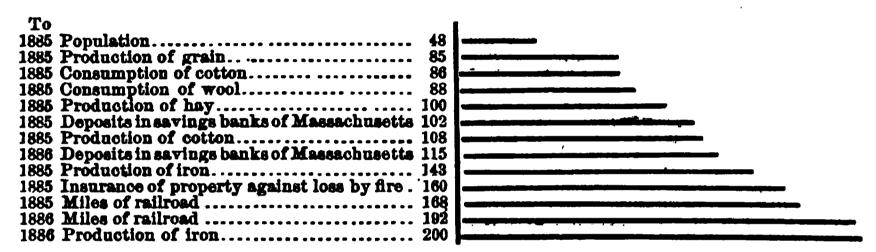
Has there been "less movement, less production, less consumption?"
So far from this diagnosis being a true one it may be safely alleged that never in history has there been such a record of increase in the production or consumption of all the necessaries of life, or such active and increased movement in all commodities.

I will not take 1865 as a starting-point, but rather 1870, when we had surmounted the greatest dangers of paper inflation, and were fairly headed towards the resumption of specie payment, which was accomplished in 1879.

Between 1870 and 1885 or 1886, the relative increase in population, in production,

in consumption, and in some forms of wealth, has been as follows:

Gain in population, production, wealth, and savings, 1870 to 1885, and on some items to 1886.



In considering these relative gains, it will be observed that they represent a constant gain in the means of subsistence over population; that with the exception of the increase in personal wealth, which is indicated by the increase in the amount of property insured against loss by fire, they represent the progress of the million in the means of common welfare rather than of the millionaire in personal wealth, and that they give testimony to the beneficent law of progress from poverty.

The same rule has held true, nct only in respect to the necessaries of life, but also as to its comforts and luxuries, and while fully admitting that we have grave problems of "progress and poverty" to deal with, yet the rule has been "progress from poverty." The mass of the people who constitute the "working classes," in the limited sense in which the so-called "labor reformers" choose to separate them from those who are not wage-earners, have been securing to their own use and enjoyment a constantly increasing share or proportion of a steadily increasing product.

As it has been with production and consumption, so has it been with movement,

the third factor cited.

Never in the history of the world has there been such an increase in the actual movement, such activity, such shortening of the time, or such reduction in the cost, as that which has been accomplished by the consolidation of the railway systems of the United States, which was begun by Vanderbilt in 1869, and by the extension of the service since that date. It has also been on the most successful, prosperous, and profitable lines that the increase of movement or traffic and the reduction in the charges have been greatest.

We were enabled to resume specie payment by the possibility of exchanging our surplus of grain and meat for the specie which we needed, by the reduction in the railway charge for moving these products, and by that only. This reduction has occurred, not by conveying wheat at less than cost, but by economy in the work. It is

permanent and not temporary, because it pays a profit.

Bear in mind that as yet not much over 300,000 square miles of our domain, out of 3,000,000, is now under the plow, and that up to this time our chief source of supply of grain, beef, and pork, is more than 1,000 miles from the seaboard—bear in mind also that since 1865 we have constructed over 100,000 miles of railway, by which, taking a strip of land only 5 miles wide on each side, 1,000,000 square miles, 640,000,000 acres have been brought within 5 miles or less of a railway—you will then have some conception of what I myself believe to have been the great price-making factor in this generation, to wit, the railway and the steamship.

If such results as I have pictured in the United States have ensued from what has been miscalled the "outlawry of silver," and if these results are wholly due to the adherence to the gold standard of legal tender, the act of outlawry might well be justified. In such case it might surely be judicious to maintain the edict. But it would be as unsuitable to impute the actual progress which we have made to changes of

policy in respect to silver as it is to impute poverty and distress thereto.

Wages are now as high in gold in the United States as they were in the period of paper-money inflation, and their purchasing power has increased from 66 to 108 per cent., according to the kind and quality of the work done. Common laborers can buy 66 per cent. more of the necessaries of life with the earnings of one day's work than in 1865; factory operatives of all kinds, men and women, can buy 78 per cent. more; good mechanics can buy 90 per cent. more; and men of special skill and aptitude, over 100 per cent. more.

This vast progress in the condition of the people of the United States has been accomplished during the period when the money of the nation has been appreciating, or since it attained the stability of the gold standard, and while prices have been

steadily falling.

There have been short periods when the work of a considerable number, especially of common laborers, has not been continuous. These periods have corresponded closely with the construction of new railroads. In 1882 we built 11,500 miles, in 1884 less than 4,000. The difference corresponds to one year's work of nearly 500,000 men. This year we shall probably construct 12,000 miles, and all the men who were idle can now find work.

Who can wonder that in a term of less than twenty years—in which distance has been lost in a fraction of a cent a ton a mile, in which time has almost ceased to be a factor in computing cost, and in which the whole world has been converted into a close neighborhood, in which each man could serve his neighbor if he only would—that profits should have varied and been greatly reduced; that there should have been hard times for the owners of capital, hard times for the owners of property, especially in land, who could not adjust themselves at once to the new conditions, as well as hard times for the common laborer, whose customary work has been displaced by machinery? All these are but incidents in progress, more marked in the period when progress is most rapid. They are a part of the penalty of invention.

Both statistics and observation tend to prove similar progress in Great Britain, perhaps not in equal measure, because you have burdens to bear from which we are

tree.

Germany has also gained since her money was recoined in 1873, when the gold standard was established, and when her present coined money, consisting in part of gold and in part of silver, was substituted for 17 varieties of gold money, 66 different silver pieces, and 46 kinds of notes issued by 35 different banks, besides a considerable amount and variety of state paper money.\* But whether this gain has more than counterbalanced the increasing burden of taxation and the increasing drain of her military system is a matter of doubt.

Whether France and Italy can continue to bear the military system and to support armies which seem to be as impossible to be disbanded as they are incapable of being sustained without national bankruptcy, are problems for the future to solve, perhaps

at no very distant day.

But, compared to these beneficent forces which make for abundance, and these maleficent forces which waste this abundance, what weight should be given to changes in the acts of legal tender, or to the adoption of one metal as the unit of

value rather than the alternate or option of two metals?

Having thus brought the question into definite terms on the basis of facts, it may well be admitted that the depreciation of silver at the financial centers, and the "dislocation" of the exchanges, as it has been called, between the gold-standard and the silver-standard nations, is a grave misfortune, and one that requires a remedy, if a remedy can be found. I think the low price of silver bullion is due to a prolonged scare or undue discredit, which is not warranted by facts, and that the remedy will come when there is a true comprehension of what bimetallism really is, and a true understanding of what may be accomplished by acts of legal tender.

If the proposition can be sustained that bimetallism exists de facto, and that gold and silver have been adopted as money metals by a process of natural selection, and not through the evolution of statute law, then it follows that both will survive as

money metals, in spite of changes in the statues of legal tender.

But the important consideration is that acts of legal tender may alter the distribution of the two metals, and, in the adjustment to the new conditions which are brought into force by such acts, great changes may be worked for a time in the ratio of one to the other.

A certain proportion of each year's product of gold and silver will pass into the world's stock of money in one place or another, without much regard to statutes,

<sup>\*</sup> See report of H. B. M. Consul Strachey, March, 1887.

but more of the gold may go where gold is the single legal tender, and more of the

silver may go where silver is the necessary money metal.

What proportion of the present product of gold or silver is used in the arts, how much is used for bangles or other ornaments, how much is used in gilding the domes or towers of the temples of Asia, how much is hoarded, may perhaps be surmised, but can not be accurately computed. Suffice it that the greater part has been, and will continue to be, coined into money.

If, then, the long continuance of certain acts of legal tender had caused the two metals to be distributed in one way, it follows that important changes in such statutes and an important cessation of coinage may have worked a certain change in

such distribution.

Is not this what occurred in 1873, and subsequently?

If these changes in acts of legal tender have only altered the distribution of the two metals without affecting their use as money metals in any important measure, we are led to the most important branch of the question, to wit: Which metal is most likely to be in the quickest demand for coinage into money in the next ten or twenty years, silver or gold? Of which is there most likely to be a relative scarcity, silver or gold? Which is most likely to rise in the ratio to the other, silver or gold? Assuming that no important change is made in the existing statutes in that term.

If I were to suggest that it would possibly and even probably be silver, you might

be startled. Let us again look at the facts and see what they indicate.

The existing dread of an "avalanche of silver," or of an excessive product in the North American continent, there is now reason to believe to be without foundation. Having been greatly misled myself on this point when I first began to study this question, I am now the more anxious to remove this fear; but, not expecting to meet it here at this late day, I am not as well supplied with evidence as I hope to be soon.

I am, however, permitted to quote from a recent letter of Dr. T. Sterry Hunt, who

is here with us.

He says: "So far as Canada is concerned, the Silver Islet mine gave, perhaps, \$3,000,000 in all, and has been abandoned. Since 1872, when I visited the famous silver mines of the north shore of Lake Superior, the cry has been periodically raised

that they were of fabulous value, but not one has yet been worked.

"As to our own western region, you know that the great Comstock lode is now exhausted, or nearly so. I was last May in Tombstone, Ariz., a famous seat of silver production for many years—now at a stand-still. Along the line of the Sonora Railroad, from Benson to Nogales, there are two or three large silver mills which I saw lying idle for want of use. Do not mistake me; there are still, and will long be, rich silver-producing camps. "There is, and there will be, for a long time, a large and healthy mining industry, and much silver and gold will be produced; but from all I have seen and heard, I think that the excessive silver production is a thing of the past." (The italics are my own.)

This statement of Dr. Hunt's corresponds with all the impressions which I have received in recent years, and will probably be sustained by the testimony of other ex-

perts, which will be taken.

You will observe how very different this is from the vague talk of producing silver at a shilling to 20 pence per ounce, such as I find in many places. If any such production were possible, surely the silver would come as freely at 44 pence as at a higher

price.

May it not then be held that there has been no overproduction of silver, and that there cannot be, unless all mints are closed against silver coinage, and at the same time all nations, civilized, semi-civilized, or barbarous, unite in such a distrust of the white metal as to be no longer willing to use it. Is not this an absurdity, an almost unthinkable proposition? If such are the facts of the past and the conditions of the present, may not the present depression in the price of silver bullion in London be a mere passing incident in the adjustment of the two money metals to the new conditions of distribution which were brought into force by the acts of Germany and the Latin Union in 1873?

\* Since writing the foregoing I have been permitted to read the paper prepared by Mr. William Topley, F. G. S., for this meeting, upon the probable future production of gold and silver, and I observe that in respect to silver he has reached the conclusion that any considerable increase on the present product will depend mainly upon an advance in the present price of bullion.

From what is now known of the conditions of mining in the United States, I have reached the conclusion that it would probably require a large advance in price to develop any considerable increase of silver. If upon further investigation such should not appear to be the fact, and an increasing product at a lower cost without corresponding increase of demand should appear to be in view, the theory that a higher value and price can be forced by an act of international legal tender will be received with yet more hesitation than it is now.

Even the disposition of the admittedly large product of silver in the face of conditions adverse to its price since 1873 may be cited to sustain this view.

For thirteen years prior to 1873, inclusive, the world's production of silver, measured in dollars of 412} grains each, was, in round figures, \$700,000,000.

In 1873 it is said to have been "demonetized," "outlawed," or "boycotted."

In thirteen years, since 1873, the product has been over \$1,300,000,000.

The coinage of "Bland" dollars, so called in the United States, has taken up but little more than Germany sold, so that nearly this entire product has been put into the market. What wonder that when the conditions of trade threw most of this product upon the London market, where it met the increasing competition of India bills, the price should have fallen so that the gold value of this bullion may not have been much over a thousand million dollars.

But even that sum would be called, in the United States, "a pretty big pile." What has become of it? Has the so-called "demonetization" of silver, and the adoption of a single legal tender on a gold basis by about one-sixth or one-seventh part of the population of the globe, made the whole world so prosperous that this whole big pile has been converted into plate or bangles? If such is the fact, perhaps the less discussion about "remonetization" the better. But the very idea is absurd; the increasing commerce of the silver-using continents has required more coined money made of silver, and will soon call for yet more. The action of France and Germany has not altered the volume of coined money, but has merely changed its distribution. The balance may be nearly adjusted."

Again, since 1873 has there been any sign of a scarcity of gold anywhere? Has not gold filled the small channels from which silver had been displaced, without any appreciable effect upon the vast stock which has been added since 1850? Are there not ample and sufficient causes for the fall in prices of all the necessaries of life without the need of imagining a scarcity of gold? Had this fall in the price of the products of labor been due to a scarcity of gold, would not the price of the labor itself have been reduced? Has not the reduction in prices been most beneficent when accompanied by a steady rise in the rate or in the purchasing power of the wages?

"Of what consequence is it what happens to the millionaire so long as the million prosper?"

<sup>\*</sup>General Survey of the Production of Gold and Silver in the Years 1493-1885, as Corrected by Dr. Adolf Soetbeer in the 2d Edition of his Materialien, October, 1886.

	Weight.				
Period.	Gold,	Silver,	Percentage.		
	annual av- erage.	age.	Gold.	Silver.	
	Kilograms.	Kilograms.	Per cent.	Per cent.	
1498–1520	5, 800	47, 000	11.0	89. 0	
1521–1544	7, 160	90, 200	7.4	92. 6	
1545–1560		811, 600	2.7	97. 8	
1561–1580	6, 840	299, 500	. 2.2	97. 8	
<b>#</b> 581–1600		418, 900	1.7	98. 2	
1601–1620	. ,	422, 900	2.0	98. 0	
1621–1640	8, 300	893, 600	2. 1	97. 9	
1641–1660		366, 300	2.3	97. 7	
1661–1680		837, 000	2.7	97. 8	
1681–1700	10, 765	841, 900	8. i	96. 9	
1701–1720		855, <b>6</b> 00	8.5	96. 5	
1721–1740	19, 080	431, 200	4.2	<b>95.</b> 8	
1741–1760		533, 145	1.1	95. 6	
1761–1780	20, 705	652, 740	3. 1	96. 9	
			2.0	98.0	
	17, 790	879, 060			
1801–1810	17,778	894, 150	1.9	98. 1	
1811-1820 1821-1630		540, 770	2. 1	97. 9	
		460, 560	8.0	97. 0	
1831–1840.		596, 450	8.8	96.7	
1841–1850		780, 415	6. 6	93. 4	
1851–1855		886, 115	18.4	81. 6	
1856-1860		904, 940	18.2	81.8	
1861–1865		1, 101, 150	14.4	85. 6	
1866–1870		1, 839, 085	12.7	87. 8	
1871–1875		1, 969, 425	8.1	91. 9	
1876-1880	172, 414	2, 450, 252	6. 6	93, 4	
1881–1885	149, 137	2, 861, 709	5.0	95. 0	

Production of Gold and Silver, 1886.—J. P. KIMBALL, Director U. S. Mint.

May it not be held that the same forces which have brought into existence this huge modern abundance of products—which have made the whole world a neighborhood, and which have given new and wide opportunities for commerce among menhave not only worked economy in the use of gold, but have also created a new and increasing demand for silver?

The railroad, the telegraph, the steamship, the Suez Canal, and the improvement in the methods of banking have all tended to great economy in the use of gold. Have not these same forces, by increasing the number and the aggregate of small transactions and widening commerce, also greatly increased the use of silver coin? If not,

again I ask, What has become of the silver?

When we consider the vast changes, in fact, the social revolution, which has been brought about by the railroad and the steamship in what are called civilized countries in the last fifteen or twenty years by the mere improvement and extension of the system already established, may we not predicate a yet more profound change in the condition of society in Asia, Africa, South and Central America, as the railway opens India and Turkestan, passes across the Andes, regenerates Mexico, develops the vast temperate and fertile region of the Paraguay and Parana? Yet more when the Chinese wall gives way, when the Euphrates is paralleled, and when the Trans-Siberian Railway is completed, and eighty days become too long for a trip around the world?

Will not the commerce of the people on these new lines be vastly increased? Will not their commerce with other nations be greatly extended? What money will they use? What coin must they adopt? Must it not be silver? Then in what measure

will the present product of silver suffice to meet the increasing demand?

If silver is not and cannot be demonetized, and if gold can be yet more economized, what will be the relative conditions of supply and demand, and what will be the ratio of one metal to the other ten or twenty years from this time? Who can tell?

It follows from the course of reasoning which I have presented, provided it can be sustained, that the principal effect of the action of Germany and the Latin Union since 1873 has been to throw the exchanges between the gold-standard and the silver-standard nations into great confusion, involving expense and loss to large numbers of persons, and for a time affecting the prices of imports and exports in some small measure.

It seems to me, however, utterly untenable to allege that the depreciation of the rupee, in the exchange between India and Great Britain, has worked an equivalent bounty on Indian wheat exported. Had such been the case, there could have been no such fall in the price of silver bullion in London, but the excessive profit on the India traffic would have caused instant competition to secure bullion for remittance. I believe the India merchants who have testified before the royal commission have

disproved this fallacy.

In order that true consideration should be given to the effect of the competition of India wheat, under the alleged stimulus of the depreciation of the rupee in London, while it is said to have retained substantially its full value to the grower in India, an analysis should be made of the change in the condition in American competition since 1870 to 1873, by which the wheat grown in America on a distinctly appreciating currency from 1870 to 1879, and since then on a gold basis, has held its place as the prime factor in the supply of Great Britain, and still holds it while the imports from India

are diminishing.

The first consideration is to be given to the reduction in the railway charge for moving produce from Chicago to the sea-board, a little less than 1,000 miles. This reduction has been on the average traffic a little more than 1 cent per ton per mile, comparing the rates of 1870 to 1873, inclusive, with those of 1883 to 1886, inclusive. very large portion of the wheat crop of the United States is grown in Minnesota, Dakota, Kansas, and other places, 500 miles or more west of Chicago, and it is the wheat from these new lands which makes the price. West of Chicago the extension of the railway system, the construction of elevators all over the country and other improvements, have made a yet greater reduction in the cost of handling and moving wheat since 1873. If, then, we assume that the charge for moving wheat 1,500 miles has been reduced only three-quarters of a cent a ton per mile, or only 75 per cent. of the actual average east of Chicago, we get a saving on one ton of 331 bushels of 60 pounds each of 334 cents per bushel; or, at 8 bushels to the quarter, \$2.70. Disregarding fractions this item only is 11 shillings per quarter. In the same period the cost of moving grain from New York or Boston to Liverpool has been reduced one-half or more, say 2 shillings, per quarter. Add these two sums to 34 shillings, a price in Mark Lane at which the supply of India wheat is checked while that from America continues, and we have 47 shillings. But this is but a part of the change which has enabled the wheat or flour of the United States to be laid down in Great Britain at so low a price. See note at end of Appendix A.

Improvements in the machinery of agriculture have enabled farmers to increase the grain crop since 1870 35 per cent. in excess of the increase in population, with no relative gain in the number of persons devoted to agriculture. In the same

period an equal if not a greater gain has been made in the process of milling. The wages of farm laborers have risen, but proportionately less in number are required to do the work, while the interest which the farmer now pays on money borrowed on mortgage has been reduced nearly one-half.

Taking all these changes into view, I think it is safe to say that 34 shillings per quarter in Mark Lane is as sure to maintain the import of American wheat in increasing volume as 50 shillings in 1870 to 1873 was sure to do so; and, if I am correctly

informed, the import of India wheat will be likely to diminish at this price.

I think it must therefore be admitted that if the depreciation of the rupee in London has for a short time stimulated the export of wheat from India, it can not long be depended upon; therefore, the pending issue on the silver question may not be much longer obscured by this side issue. If it is important to English agriculture to raise the price of bread, some other way must be found than to change the present monetary system, either of Great Britain or India.

In all the many analyses which I have made to determine the causes of the fall in the prices of the necessaries of life, I find similar causes working to the beneficent result of lower cost, lower price, and better conditions or higher wages to those who

perform the actual labor.

Nevertheless this great variation and fluctuation in the rate of exchange is an evil, and if it can be removed by an international agreement for a com non legal tender of either gold or silver at a fixed ratio the effort to establish such a treaty is worth all the attention which is given to it; and to that end I have endeavored to bring the question, What is bimetallism?

It seems to me that this question may be at last resolved into two or three very

simple propositions already stated.

Will a treaty of legal tender among the principal commercial and manufacturing nations to the effect that either silver or gold coin of given weight and fineness, at a ratio of 151 to 1, or any other agreed ratio, serve to bind the two metals into one mass as a standard of deferred payments, and do away with the variations of exchange in current international trade?

Or, in other words, bimetallism existing de facto, and the new distribution of the metals worked by the acts of 1873 being completed, will a uniform act of legal tender, enforcing the acceptance of either metal by creditors in liquidation of debts, cause such two metals to maintain the agreed ratio to each other in all transactions, whether cash or on credit?

If such results can be attained, then the chief purpose of those who are now called bimetallists may be admitted to be scientifically possible, even by those who cannot accept the arguments or statements upon which they now base their somewhat imperative demands.

If, however, such results may not be attained by statute, then the ratio of silver to gold will establish itself hereafter as it has heretofore, according to the circumstances and conditions of the times, and neither statutes nor treaty will have any permanent

effect, whatever temporary fluctuation or variation they may cause.

It is very easy to conceive that commerce would go on by the measure of price, and with the use of coined money as an instrument of exchange, if all acts of legal tender were repealed. In such event all coins would become what I believe the silver taels of China are—mere weights of metal—and all contracts could be enforced at law in the weight of the metal promised, as the rents of a certain great water-power in Massachusetts have been enforced in so many pennyweights of silver, these leases having been executed about thirty years since, when the same "scare" prevailed about gold which now prevails about silver.

Under such conditions, i. e., in the absence of any acts of legal tender, gold and silver would attain a certain ratio to each other, according to the emission of the metals by nature and the cost of production covering centuries of the work of man.

The varying cost of one year, or of one generation, might have little effect on this ratio, because the product is not like that of other articles which must be consumed in order that they may be reproduced; but each year's product is an accretion to the pre-existing mass accumulated through the centuries.

It must be admitted, however, that acts of legal tender have become an integral

part of the law of contracts—they now vary among nations.

Will a uniform act of legal tender assure stability in the ratio of silver to gold? Are there any known facts from which an answer can be deduced?

What effect on the future production of either gold or silver such an act or treaty would have for a time may perhaps be answered only in Yankee fashion by asking

another question.

Had the "scare" about gold between 1850 and 1860 closed the mints of Germany and the Latin Union to gold, and limited the full legal tender of these nations and of the United States to silver coin, with the free coinage of gold maintained only in Great Britain, what would have been the effect on the ratio of gold to silver since then in commercial countries?

In this treatise my whole attempt has been to clear away misconception, and to define the issue, while at the same time presenting considerations which seem to me most important, but which do not yet appear to have received much attention.

It would not be within the scope and purpose of this paper for me to give any review of the present state of opinion on this subject in this country, on the Continent, or

in the United States at this time.

I have been obliged to prepare this treatise in the short intervals of a hasty and busy journey; this must be my excuse for the lack of concentration.

INTERLAKEN, August 15, 1887.

### ADDENDA.

While this treatise was passing through the press, I have had the opportunity to give a partial review to the testimony which has been presented to the Royal Commission. I find in it abundant evidence sustaining the positions which I have taken, to wit:

(1) The mass of gold in existence has been sufficient to enable Germany to adopt the gold standard of legal tender, the United States and Italy to resume specie payment substantially on a gold standard, the Latin Union to cease silver coinage and to maintain their existing stock of legal-tender silver coin at par in gold, without creating any apparent scarcity of gold, and without any special influence in depressing the prices of commodities or services.

(2) The reduction in the price of commodities has been no greater than would be warranted by and might have been expected from the improvements in the processes of production and distribution. This reduction, having been accompanied by a general maintenance or rise in the price or rate of wages, has been almost wholly bene-

ficial, temporary hardship to special classes being admitted.

(3) The changes which have been worked by the action of Germany and the Latin Union in 1873, and subsequently, have caused a local and probably temporary depre-

ciation of silver and not an appreciation of gold.

(4) The "dislocation of the exchanges," as it has been called, between the gold legal-tender and the silver-standard nations has been injurious to certain classes, notably to those who have had occasion to make cash remittances from silver to gold-standard countries. This variation in exchange has also tended to make the export traffic from the gold-standard or manufacturing nations more complex, and has subjected it to a little increased cost in bankers' charges, but has not altered the volume of traffic. It may perhaps have given a slight and temporary stimulus to the export of wheat and other products from India and other silver-standard nations, whether to their ultimate benefit or injury does not yet appear, as the subject is only treated in the testimony with reference to the production of these countries and not with reference to their consumption.

(5) The testimony is fairly concurrent and conclusive that silver has not yet depreciated to any measurable extent among the great populations to whom it is the principal money metal, as well as one of the principal subjects of accumulation as realized

wealth.

(6) In the fact that silver has thus maintained its value in the domestic commerce of the greater part of the population of the globe, in the face of an addition to the volume of metal in thirteen years since 1873, equivalent to over 1,300,000,000 dollars of 412½ grains each, 90 per cent. fine, it follows that the depreciation of silver must have been limited to the financial centers, the coinage of the United States having only taken up an amount of bullion equal to that disused by Germany and other States of Europe.

(7) This great additional volume of silver bullion, having been forced through one spout in London, has been there compressed or locally reduced in value, because it could not accumulate; after it has passed through this spout it has been expanded and merged in the great mass of silver possessed by the silver-using continents, and has had so little effect as not to have yet caused an appreciable advance in prices or

wages in these silver-using countries.

(8) It may be assumed that the silver coined by the United States up to this time, now represented dollar for dollar, in silver certificates, will be required in the present circulation to make up for the contraction in bank notes or United States notes, and that its convertibility into gold coin will surely be maintained. If, then, the depreciation of silver in the financial centers is substantially limited to such centers, it follows that the price of silver bullion must recover until it becomes equal to the mass of silver in use in silver-standard countries in its purchasing power; but at what ratio of silver to gold this equilibrium will be re-established does not yet appear.

(9) In order to restore this equilibrium it may be necessary or expedient for the gold-standard, or manufacturing nations to remove the duties on the crude materials or articles of food which are the chief product of silver-using nations, in order that the consumption of these products may be increased, and a direct exchange for

silver for them may be established.

(10) Even if it were admitted that the policy which is advocated under the name of a "Bimetallic Treaty" among nations, had it been adopted, or had the free coinage of silver continued as it was before 1873 in Germany and the Latin Union, would have prevented the great depression in the price of bullion in London, it does not yet appear that even such conditions would have assured absolute stability in that price or ratio.

The argument for a bimetallic treaty, therefore, rests for its support not so much on experience as on the conception of those who urge its adoption, that the value, force, or purchasing power of money is derived from one of the provisions of the modern law of contracts, and that it is necessary to the circulation and use of coined money that it shall be legal tender for

deferred payments.

(11) If the consideration of the question be too strictly limited to the discussion of this theory, and but little attention be given to the facts, it may happen that the restoration of silver to its proper estimation may be retarded, and the evils now due to depression may be longer continued than would be the case if less importance were attributed to monetary legislation and more weight were given to the higher laws governing value and controlling commerce, to which all statutes must be adjusted if they are to have any permanent effect or duration.

(12) While there is no immediate prospect of the negotiation of a "bimetallic treaty," the subject is beginning to assume its true importance, and its discussion cannot fail to lead to many measures of improvement, not only in respect to interna-

tional coinage and legal tender, but perhaps to weights and measures.

LONDON, August 25, 1887.

#### Note to page 24:

In order that the importance of railways as a factor in prices, especially of farm products, may be fully comprehended, I append the following tables which I prepared in January of the present year for another purpose. I requested Mr. Henry V. Poor, editor of the Railway Manual, to give me the particulars of the traffic of the great trunk lines of railroad from 1865 to date, year by year. There are six which enter Chicago, and there are twenty-one which in combinations connect Chicago with the eastern sea-board. These twenty-seven trunk lines did about half the work of the country last year. The reduction in their charge for this service between the years 1865 to 1868, inclusive, averaged, and their charge in the year 1885, was 13 cents per ton per mile, which, being computed on the actual traffic of the year 1885, proved that the traffic of last year cost \$800,000,000 less than it would have cost at what

were considered reasonable rates twenty years ago.

The actual saving of the last four years, 1882 to 1885, inclusive, as compared with the previous period, has been \$1,500,000,000. There are about 1,700 other lines of railroad which, separately or in groups, do the rest of the work, mostly that of distribution, or what may be called the crossway traffic. Their rates are now a little higher than on the through lines; they were a great deal higher twenty years ago. The saving of the last four years on all the railroads of the country, as compared to what the work would have cost twenty years ago, has been \$750,000,000 a year, or \$3,000,000,000 in all. This reduction in the railway charge for carrying food, fuel, fibers, and fabrics about the country is equal to 7 per cent. reduction in cost to consumers on the entire product of everything made in the United States in each year. The sum of money thus saved in four years, applied at the rate of \$30,000 per mile, would have paid for the construction of 100,000 miles of new railway, which have been added to our service between January 1, 1865, and January, 1887. The entire area of land which is now under the plow in the United States, omitting that devoted to pasturage, is a little over 300,000 square miles.

The new lines of railway, covering 100,000 linear miles, have opened a strip of land 5 miles on each side, amounting to 1,000,000 square miles. It therefore follows that in twenty-two years an area of land three times that which is under the plow has been brought within less than 5 miles of a railroad as to every acre. This is one-third of the territory of the United States, omitting Alaska. The effect of this great reduction in railway charge, especially on the long haul, has enabled the country to dispose of its excess of wheat, corn, meat, and dairy products which it could not have consumed, and which, except they had been exported, would have either rotted upon the field or else could not have been produced. In the year 1880 (no computations since) at least 17 per cent, of that part of the population which is engaged in agriculture found their market exclusively in a foreign country. Their number was at least 1,360,000 men out of the 8,000,000 occupied directly in agriculture or in moving

the products of agriculture to the sea-board. The average excess of imports over and above exports in this country was \$100,000,000 a year, from 1866 to 1873, inclusive.

The import and export traffic of 1874 and 1875 balanced each other.

In the year 1876, for the first time, the average freight charge on the roads connecting Chicago with the sea-board was reduced from 2½ cents a ton a mile in 1866 to less than 1 cent per ton per mile. The average of the ten years, 1876 to 1885, has been eight-tenths of a cent per ton per mile. It is this cheap transportation which has enabled us to export in the years 1876 to 1885, inclusive, nearly \$1,600,000,000 worth of product in excess of our import; this excess has consisted wholly of grain and provisions. Without this export specie payment could not have been resumed, nor could the industry of the country have gone on in its accustomed way. The whole traffic of all the railways of the United States is now over 50,000,000,000 tons moved one mile every year.

# THE FOOD PROVIDERS.

Tear.	Tons moved.	Tons moved one mile.	Charge per ton per mile.	
1865	11, 151, 701	1, 634, 324, 600	2, 900	
1966.	12, 000, 426	2, 044, 412, 000	2.546	
1867	15, 594, 454	2, 256, 220, 600	2 306	
1868	17, 467, 003	2, 651, 575, 000	1,961	
	20, 556, 153	8, 169, 554, 900	1.715	
1870	21, 456, 135	3, 744, 110, 000		
1671	25,006,003	4, 341, 127, 000	1. 478	
1872	28, 634, 347	5, 181, 250, 000	1. 475 These	These raffway lines car-
1678	12, 817, 327	5, 782, 056, 000	L 470	ried somewhat less than
1674	82, 899, 152	5, 879, 658, 000	. 1. 342 obe-quar	one-quarter of the tons
1875	32, 956, 656	5, 937, 240, 000	1.161 moved 1:	moved 1 mile to 1686.
1876	34, 166, 656	G, 738, 534, 000	236.	
1817	34, 134, 678	6, 536, 994, 000	126.	
1878	89, 124, 612	8, 853, 397, 800	. 807	
1879	48, 585, 228	10, 120, 776, 000	. 725	This traffe of 1885, at the
1890	58, 907, 397	16, 544, 831, 000	. 840	charge of 1865, would
1881	62, 616, 014	11, 650, 986, 009	. 759	•
1982	64, 948, 003	11, 189, 000, 098	. 665	ACHAI CDANGO 72,138,775
1860	66, 665, 608	11, 141, 726, 000	. 842 Differen	Difference \$256,469,063
1884	64, 387, 566	10, 710, 518, 906	. 740	
1665	66, 521, 152	11, 331, 306, 600	900	

Illhois Central, Chicago and Alton, Chicago and Rock Island, Chicago, Burlington and Quincy, Chicago and Northwestern, and the Milwankee and St. Paul railroads.

Tour.	Tone moved.	Tone more	Tone mored one mile.	Charge per ton per mile.	mile.
1865	4, 032, 166	513, 421, 439		3. 643	
1866	4, 803, 205	576, 886, 638		2.459	
1867	6, 303, 763	765, 171, 050	J.	3,175	
1868	7,064,805	883, 856, 984	J	3,154	
1909	8, 071, 568	1, 054, 559, 835	<u> </u>	3. 02¢	
1874	8, 540, 579	1, 234, 673, 291		2.423	
1877	9, 391, 681	1, 233, 058, 058		2, 509	
1879	10, 592, 414	1, 437, 038 063		2, 569	These lines carried appost
1873	11, 938, 467	1,719,49 ,690	1	2, 188	exactly one-eighth of the
1874	12, 687, 729	1, 851, 645, 824	1	2 160	tone moved I mile in 1865.
1675	12, 662, 768	1, 914, 937, 377	I	1,979	
1876.	13, 488, 204	1,994,712,255		1.87	
1977	13, 364, 721	2, 211, 021, 475	1	1.064	
1879	15, 705, 236	2, 622, 685, 886		1.478	
	18, 800, 956	3, 470, 822, 877		1.280	This traffic of 1865, at the
1880	21, 215, 307	4, 544, 469, 655		1.266	charge of 1865, would have
1881	2E, 076, 047	4, 435, 202, 005		1, 420	<b>*</b>
1862,	19, 851, 868	5, 041, 330, 034		1,364	Actual charge 75, 397, 084
1863.	31, 663, 979	5, 768, 173, 429		1,308	Dimerica etop of the
1804	32, 578, 518	5, 940, 110, 011		1.251	
1865	84.341.081	6, 287, 348, 541		1. 200	

YOAL	Reports	Excess of ex-	Railroad per ton p	d charge per mile.	Excess of im-			
		ports.	To Chicago.	From Chicago.	ports.			- Cant.
1866	<b>\$</b> 348, 859, 522		Cents. 3. 459	Cents. 2. 546	\$85, 952, 544		\$434, 812, 066	1866
1867	294, 506, 141		3.175	2.306	101, 254, 955		395, 761, 006	1867
1868	281, 952, 809		3.154	1.951	75, 483, 541		357, 436, 440	1808
1569	286, 117, 697		3.026	1.715	131, 388, 682		417, 506, 379	1669
1870	392, 771, 768		2. 423	1.585	43, 186, 640		435, 958, 408	1870
1871	442, 820, 178		2. 509	1.478	77, 403, 506		520, 223, 684	1871
1872	444, 177, 586		2. 582	1.475	182, 417, 491		626, 595, 077	1872
1873	522, 479, 922		2.188	1.470	119, 656, 288		642, 186, 210	1873
1874	586, 283, 040	<b>\$</b> 18, 876, <b>69</b> 8	2. 160	1.342		,	567, 406, 342	1874
1875	. 513, 442, 711		1.979	1.161	19, 562, 725		583, 005, 436	1875
1876	540, 334, 671	79, 643, 481	1.877	. 883			460, 741, 190	1876
1877	602, 475, 220	151, 152, 094	1.664	176.			451, 823, 126	1877
1878	601, 865, 763	257, 814, 231	1. 476	. 807			437, 051, 582	1878
1879	710, 439, 441	264, 661, 666	1.280	. 725			445, 777, 775	1879
1880	835, 638, 658	167, 683, 912	1. 206	. 840		4	667, 954, 746	1880
1881	902, 377, 346	259, 712, 718	1. 420	. 759			642, 664, 628	1881
1882	750, 542, 257	35, 902, 683	1.364	. 665			714, 639, 574	1882
1883	823, 839, 402	100, 658, 488	1.308	. 842			723, 180, 914	1883
1884	740, 513, 609	72, 815, 916	1.251	. 740			667, 697, 093	1884
1885	742, 189, 755	101 600 106	•	A2A				1

Merchandise traffic of all the railways of Poor's Railway Manual, 1886:	the Unite	d States	in 1885	; authority,
Tons moved			437	040,099
Tons moved 1 mile				894, 469
				690, 992
Charge for service			<b>4</b> 019,	·
Rate per ton per mile	• • • • • • • • • •	.cents		1.057
Twenty-seven trunk lines which, separately from the West or connect Chicago with the es			, center	in Chicago
Tons moved			185.	320,709
Tops moved 1 mile			•	076, 247
Charge for service				872,732
Determine man mile	••••••		φεισ,	
Rate per ton per mile		.cents		. 875
All other lines:		•		
Tons moved			24, 026,	719, 390 818, 223 818, 260 1. 248
Measure of this service per head of populati	ion and per	r family :		
Lines.	Tons per person per year.	Distance hauled.	Charge per per- son.	Charge per family of five persons.
•	•			
Twenty-seven trunk lines	3. 252 4. 420	Miles. 136 95½	\$3. 68 5. 26	\$18.40 26.30
		136		· · · · · · · · · · · · · · · · · · ·
All others	27 trunk lis. At this ines having the year 35 consisted lill mile sek for a	136 95½  111½ Average.  nes in the rate of experiment of experiment of day, or make average.  been chested in mouther average.	5. 26 \$8. 94 e years 1 xcess, ap s greate \$803,63 ing 42 pc h man, y five. T 87\(\frac{1}{2}\) cent 2. 315 ce 1. 196 1. 119 arged e been	\$14.70 \$14.70 \$14.70 1865 to 1868, oplied to the r reduction, 3,477. ounds a day woman, and 'he average s per week

### APPENDIX B.

The following very instructive paper, read by Prof. H. B. Greven, of Leiden, Holland, is submitted, both as an interesting chapter in monetary history, but also to show how a very large volume of silver coin may be maintained at par in gold, after the suspension of silver coinage, provided its redemption is assured in gold coin by a

national agency authorized thereto by legislation.

In my investigations in Europe I found that one of the causes of the discredit of silver was the fear of the accumulation of silver coin in the Treasury of the United States becoming greater than the country would bear, the manner in which it is now utilized by the issue of silver certificates not being comprehended in countries where small notes are not known or in circulation. I am very confident that if the fear in Europe of an "avalanche of silver" from the United States were removed, the increasing demand for silver might soon allay the present doubt of the value of silver bullion and that the price might consequently advance. In such event, the free coinage of silver would have a much fairer chance of consideration.

E. A.

#### NOTE ON THE MONETARY SYSTEM OF THE NETHERLANDS.

[Paper read by Prof. H. B. Greven, of Leiden, before the economic section of the British Association at Manchester, on Wednesday, September 7, 1887.]

Our monetary history since 1873 presents some very interesting features. Until that date we had the single silver standard. Owing to the changes in Germany and the countries in the north of Europe, who had passed over to the single gold standard, the coinage of silver was suspended in the spring of 1873, and since that time we have been in a very curious position for two years. Silver could be no longer brought to  $\dot{r}$ the mint, and gold coin could not be issued, because Parliament could not agree on the weight to be given to the gold piece and rejected all proposals for introducing a gold standard. We possessed a fixed quantity of silver coins, and their value was regulated neither by the variations of gold in the market nor by those of silver. In fact, the value of our florin was quite independent of any metal, and depended only on supply and demand. Now, the demand for coin was increasing in the years 1873 to 1875, and the result was that while silver as a metal was going down in the market our silver coins were appreciated as against gold. The rate of exchange on London, which oscillates now on the gold basis between 12.1 and 12.3 florins for a pound sterling, shrank to 11.12 florins. We could not possibly remain in that unnatural position, and so in 1875 a gold piece was issued, coined at the ratio of 15# parts of silver against 1 of gold. Since that time our monetary system can be described, in the words of Mr. Cernuschi, as that of the "étalon double boiteux," the double standard, but crippled in so far as the coinage of silver is forbidden. The value of the florin solely depends on the variations of gold, but the coins in circulation are most of them tokens. They are legal tender for all payments. A silver florin cannot possibly be of less value than that of one-tenth part of the gold 10-florin piece, but their intrinsic value is 15 to 20 per cent. less.

Thus the only way of extending the specie circulation is the coining of gold. Some £6,000,000 of gold coin have been issued since 1875, but we were not sure to keep them in the country. Our position, indeed, had considerable dangers. When the balance of international payments required export of specie, the gold coin only could be used for that purpose without loss. Should the bankers have sold our silver floring in the London market they should have lost the difference between the intrinsic

value and the mint value.

Now, for some years after the introduction of gold coinage all went well. The Netherlands bank was always willing to pay its bank notes in gold when the gold was needed for export, but it was very difficult to get any gold for circulation in the

country itself. It was a wise policy, this. The silver specie served its purpose there equally well, and, our stock of gold being very small in comparison to the whole of the specie, we ought to keep as much of it as possible ready for foreign demand. (I say equally well, because the silver pieces did not circulate in greater number than amount.) The danger of this to our monetary situation appeared in the years 1881 and 1882. The balance of trade turned against us and the stack of t the public required, and fully covered bank notes were used for payments of greater to some £600,000, while the silver specie, whose value was appreciated artificially. consisted of about £30,000,000, when we bring into account also the silver in the colonies. Unless some remedial measure was taken, the confidence that payment in Dutch floring was payment in gold would have been lost, and in a short time the gold coins would have sold for more than their nominal value. In other words, there was great danger of an agio of gold, and it ought to be prevented at all cost. The question was, how to effect that result with as little cost as possible. Of course we could have melted down a part of our silver coins, and so diminished the circulation and brought the rates of exchange below the exportation point. Government was prepared to bear the loss on the operation, but only when it was absolutely necessary. An act was passed in April, 1884, which gave powers to the Chancellor of the Exchequer for authorizing the bank to sell at market prices a quantity of 25,000,000 silver floring when the state of the currency requires it. Since then every banker knows that when he needs gold for export, and the bank cannot pay in gold, it will give him so much silver as will enable him to buy a quantity of gold equal in value to so many gold coins as the notes offered for payment represent. In that manner confidence was entirely restored. Nobody now has the least doubt that an agio of gold has become impossible.

This legislative measure has cost us nothing at all to this day, as rates have all along been favorable to our country, and the bank has been able to secure a stock of gold, amounting in the preceding months to about £5,000,000. Thus, without any cost to the treasury, we have been able to maintain our currency on the gold basis ever since 1875. And I wish to add that we have done it without any serious disturbance in the bank rate. It can no doubt be maintained that the rates have been somewhat higher than they ought to have been if our currency had consisted only of The directors of the bank can not consider the silver in their vaults as a basis of the emission of bank notes in just the same way as they do consider the stock of gold. Perhaps even at a lower rate of interest the nominal value in florins of their specie and bullion would have been quite sufficient for their own safety. But, as they wished to pay in gold for export any quantity asked for, this consideration has come in in their decision concerning the rates. Still industry and commerce did not complain of this state of affairs. They did not consider it too high a cost for the maintenance of our currency system, and I think you Englishmen will agree with them when I tell you that the rate of interest on bills, 21 per cent., has now been absolutely constant since May, 1885, for a period of more than two years. This compares favorably.

it seems, with the numerous alterations in the rate of the Bank of England.

Now I propose to add a few words about the monetary relations of our colonies with the mother country, a subject that will specially interest you, because of the very serious disturbances in your trade with India since the beginning of what is usually called the depreciation of silver, and would in my opinion be more truly called the appreciation of gold. I can not deny that we met with difficulties also, but they were of quite another character. Your Indian mints have been open for silver all the Holland, on the contrary, has adopted the gold standard for the colonies since You have a different standard in Europe and in India, we have got the same. Our Indian florin is a gold florin. Indian prices are gold prices. Gold does not circulate at all in Java, indeed there is scarcely any gold in the colonies, and still all these silver floring have the same buying power as so many pieces of gold, containing each one-tenth of our 10-florin gold piece; that is to say, their value is about 20 per cent. above the intrinsic value. So great is the power acts of parliament have on the value of coins, supposed only that the supply of them is limited. You will understand, from what I just said, that by the unity of the standard in the kingdom in Europe and in our Indian domain we escape all the difficulties arising from great and sudden variations in the rate of exchange that gives you so much trouble. The exchange is always at or about par, just as rates between London and Edinburgh or New York and New Orleans. Our difficulties arise from another cause. exports from India have been stimulated; our export trade from Java has been impeded. The producers of coffee, sugar, and other tropical products sell their goods in the European market for a diminished price, while many of the elements of their cost of production, and the burden on their estates and manufactories, in so far as they are working with borrowed capital, remain the same, or at any rate do not go down as soon as the prices of the produce. Their margin of profits has disappeared in many cases, they have not been able to repay in due time the working capital they had borrowed from the financial companies, and some of them had to be

wound up. But all those difficulties, very real and serious as they are, do result in the last resort from the decrease of prices, in other words from the appreciation of gold, and most of the competent men in our colonies are agreed that we ought to bear them rather than to break the unity of currency over the whole of our European

and Indian territory.

These are the main features of our monetary history for the last fifteen years. Our situation is far from satisfactory, it is in the highest degree artificial, and we are constantly on the watch for making such changes as will make the intrinsic value of all our legal-tender coins to correspond to the mint value. How that will be effected will entirely depend on the course of the international negotiations, now pending for many years, for the adoption of a common standard of value. So long as there is any hope that the great commercial nations will come to an agreement for steadying the ratio of exchange between the precious metals—whatever that ratio may be—and for using them both all over the world, there is no reason for changing our present system. But should the case for silver become hopeless, we should be amongst the first to exchange our silver for gold at whatever cost, although we would deplore such a change very much, for the manifold evils arising from a further appreciation of gold and for the irregularities and the injustice that would result from it in the distribution of wealth.

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# APPENDIX C.

Reference has been made in the text of this report to certain influences which have worked to the discredit of silver in the European market, and which may therefore have in part at least caused a local depression in the price of silver bullion

have in part at least caused a local depression in the price of silver bullion.

The first of these causes has been present into in respect to the production.

The first of these causes has been uncertainty in respect to the production of silver, especially on the North American continent, and to the vague and indefinite dread of an excessive production at a cost much lower than the ruling price of the last few years.

The subsequent letters from geologists of acknowledged standing and reputation will give such information as to the prospective supply of silver bullion and the relative supply as compared to gold, as it is now in the power of science to furnish.

The second influence adverse to confidence in silver, and tending to continue the local depression in its price, seems to have been a general conviction on the part of men of high financial standing and ability that the people of the United States would ere long be convinced that a continued coinage of dollars of the present standard, at a ratio of silver to gold in itself inconsistent with the coinage of any other country, and itself tending to an undervaluation or depreciation of silver as compared to the former standard prevailing in Europe, would ultimately bring the United States to the single silver standard of legal tender, or to what would be called monometallism on a depreciated silver basis. It is further believed that when this conviction has become general and the disaster which might ensue had become apparent, it might happen that the United States would suddenly change its policy, stop the coinage of silver, and, in order to maintain the convertibility of all its money into gold on demand, an effort might then be made to dispose of its accumulated stock of standard dollars of the present coinage, as bullion.

As I have previously stated, the use of small notes, convertible into coin on demand, or in the form of certificates sustained by coin, dollar for dollar, is so foreign to the common practice of most European countries, especially England, as to have yet at-

tracted little attention to the real state of facts in the United States.

In nearly all the discussions of the question which have come to my notice it has been assumed that the standard dollars of the present coinage of the United States were almost all piled up in the Treasury—useless and incapable of being circulated because the people would not accept the actual dollars. As this conception of our condition is entirely erroneous, it is important that the fact should be brought into conspicuous notice that the coinage of dollars of the present standard, although it has created a barrier even to the consideration of a bimetallic treaty on the part of European countries, yet it has not impaired the immediate convertibility, directly or indirectly, of the whole currency of the United States into gold coin on demand.

The coin and paper which serve the purposes of money in the United States at the

present time consist of seven varieties.

(1) Gold coin of full legal tender computed at	<b>\$</b> 573, 415, 740
(2) Silver dollars of full legal tender	273, 658, 320
(3) Subsidiary silver coin, of limited legal tender	
(4) Notes of the United States, commonly known as greenbacks, of full	
legal tender	346, 681, 016
legal tender.  (5) Bank-notes, issued by national banks and secured by the deposit of	, ,
United States interest-bearing bonds, convertible into legal-tender money on demand	
money on demand.  (6) Gold certificates, representing coin or bullion, dollar for dollar, convertible on demand	- 127, 138, 971
vertible on demand	
on demand	158, 274, 667

The volume of this currency of all sorts, October 1, 1887, was distributed as follows:

Amounts of gold and silver coins and certificates, United States notes, and national-bank notes in circulation October 1, 1887.

•	General stock coined or issued.	In Treasury.	Amount in circulation.
Gold coin Standard silver dollars Subsidiary silver Gold certificates Silver certificates United States notes National-bank notes	278, 658, 320 75, 398, 925 127, 188, 971 158, 274, 667 840, 681, 016	\$182, 324, 850 213, 043, 796 24, 984, 219 29, 154, 288 3, 919, 841 17, 610, 212 2, 938, 593	\$391, 090, 890 60, 614, 524 50, 414, 706 97, 984, 683 154, 354, 826 329, 070, 804 269, 955, 257
Total	\$1, 827, 461, 489	\$473, 975, 799	\$1, 353, 485, 690

It will be observed that the tendency of events is toward a contraction of the paper currency which is not covered by coin. The high price of the United States bonds, which must of necessity be deposited as security for national-bank note circulation, is leading to the surrender of this privilege by the banks, and to a diminution of that form of currency. The surplus revenue of the United States may also tend to accumulate in the Treasury Department in the form of legal-tender notes or in gold coin. If this should occur it would diminish either the amount of legal-tender notes in circulation, or else would back them in full, dollar for dollar, in gold coin, so that they may become simply the counterpart of gold and silver certificates.

This contraction of uncovered paper currency appears to have been met during the past twelve months by a need of a greater volume of another kind for actual use in the form either of coin or of notes. Hence it has occurred that the silver certificates paid out by the Treasury Department have remained in circulation, to the end that while the coinage of silver dollars up to this date has amounted to \$275,222,157, there remained in the Treasury on the 20th of October only \$55,094,880 which were not in use. The actual dollars in circulation amounted to the sum of \$61,847,064, and the amount of silver certificates in circulation amounted to the sum of \$153,280,213.

These silver certificates are receivable for taxes the same as gold or coin; but the silver certificates being issued in small sums, and being much more convenient than the coin itself, remain in circulation to a large extent, while the taxes are mainly paid in coin or in gold certificates. So long, therefore, as the coinage of silver dollars is strictly limited, and so long as the demand of the country for small note circulation continues as at present, there is and can be no difficulty in maintaining the convertibility of the silver coin or certificates into gold coin on demand.

These conditions may prove that no danger should be anticipated by the financial authorities of any other country of any attempt on the part of this country to dispose of the silver yet coined by sale in the form of bullion. The ultimate danger that the country may come to monometallism on the standard of depreciated silver coin must be admitted, if the coinage is continued under the present acts of Congress for a sufficient period.

At the present time the standard dollars serve the same purpose as the subsidiary coin, or as the basis for the issue of small notes sustained in full by subsidiary coin.

If the two causes of distrust and of doubt which have been named could be wholly removed from the minds of European financiers, the price of silver bullion might then be established at whatever its true ratio to gold may be, without being adversely affected by misplaced apprehension of much lower prices or by erroneous impressions of the financial condition of the United States.

I beg to submit herewith the replies to my letters of inquiry so far as I have been able to obtain them. Several gentlemen whom I addressed are either absent or too much occupied to give attention to the subject within the limited time. The names and position of those who have complied with my request will be sufficient warranty for the accuracy of their statements. My letters of inquiry were addressed to men of approved position and authority, without any previous knowledge on my part of the testimony which they would give. Their replies may furnish a sounder and safer basis for a decision upon the expediency of stopping the coinage of the present standard dollar until other nations have determined upon their policy than any other statements which it is in my pow er to give in this report.

Respectfully submitted.

LETTER FROM PROF. N. S. SHALER, GEOLOGIST U. S. GEOLOGICAL SURVEY.

HARVARD UNIVERSITY, Cambridge, October 31, 1887.

DEAR SIR: A few years ago I made a somewhat extended study of the geological conditions of our silver and gold supplies, with the view of determining the probable future production of these metals under the existing conditions of the arts involved in winning them to man's use. At your request, I give below a brief synopsis of my results. Within the limits which you have assigned for my writing it will not be possible for me to do more than state the facts as they appeared to me. To give in detail the data on which I have based these judgments would require a considerable volume. I may say that these considerations were quite uninfluenced by any theoretical views concerning the monetary relations of these metals, for on those points I have no right to an opinion, having never given any extended study to the subject.

My inquiry into the geological problems connected with these metals naturally divided itself into two heads: First, the geographical distribution of the sources of supply as determined by the distribution of the geological deposits which contain them; and, secondly, the mode of occurrence of the substances, the way in which they are disposed in deposits where they are found, and their association with other metals. I regret that it is not possible within the limited time given for the preparation of this statement to bring the data into the form a map. I have a great part of the material necessary for such a delineation, but it would require a good deal of time to give it a final form.

First, as regards the distribution of gold, we have to note that, although this metal is one which, owing to its indestructibility, is very widely disseminated in the deposits of all ages, the fields where it is sufficiently abundant to afford profitable mines are relatively inconsiderable in area. Gold occurs in either of two conditions: in veins, where the metal has been aggregated by the peculiar processes which lead to such deposition, and in detrital deposits, composed of the waste of such veins, as in the gravels and sands contained in the beds of streams which flow from regions where gold-bearing veins occur, and in the sands of the sea-shore which have been derived from such streams or from the waste of cliffs containing auriferous deposits.

Although gold-bearing veins have been found in relatively modern strata, they are in the main limited to the highly crystalline rocks lying below the Devonian horizon. By far the greater part of such deposits occur in rocks of Cambrian or Archæan age. Considering only those portions of the earth's surface which have been carefully searched for mineral deposits, we find the area which contains lode gold in sufficient quantities to repay search to amount to somewhere between one-twentieth and one-fortieth of the whole field of the dry land. From the regions where gold-bearing lodes occur the process of erosion has distributed, through the machinery of the streams, the detrital gold in such a manner as to extend the field of possible mining operation until it occupies somewhere near one-twentieth of the total land area. It is hardly necessary to say that in these areas the actual seat of the profitable deposits occupies a relatively small part of the field.

The effect of the twofold mode of occurrence of gold upon the production of the metal is extremely important. That which is contained in lodes has to be slowly won, for the reason that access to such deposits must be had along the exposed edge of the lode by the ordinary mining processes. The deposits contained in detrital gravels, provided these be of recent origin, as are most of the detrital gold deposits now worked, are much easier of access than in the case of the lodes. Access to them may be had at an indefinite number of points, and the superficial material which has to be removed is generally small in quantity. The result is that a newly discovered gold field commonly yields its alluvial store of metal with exceeding rapidity, as in the well-known instance of the California gold-washings. After the stream deposits have been exhausted may come the slower and more costly production from the lodes which by their decay supplied the washings. In certain cases, where circumstances favored the thick accumulation of gravel deposits, we may have for a considerable time the washing process continued by the well-known hydraulic method; but so far the area in which such operations can be carried on with profit appears to be very limited.

Gold occurs in lodes either in association with other valuable metals or alone. The greater part of the lode-gold occurs alone or in association with metals which are not reckoned upon in estimating the cost of production. In certain important groups of mines it is associated with silver. In other cases, along with silver, it is associated with lead, and in yet other instances with less important metals, which are won at the same time with the more precious material.

It is, in a general way at least, true that gold differs from silver in that it has to be mined for itself alone; while, as we shall note hereafter, silver most commonly occurs in combination with other valuable metals. Deposits containing gold alone generally occur in the form of gold-bearing quartz, in which gold exists in an uncombined

form or associated with pyrites. Although those quartz veins which bear gold are often very continuous, the area containing profitable amounts of the metal is commonly limited to particular parts of the vein, occurring in the form of shutes or chimneys. In general, it may be said that the distribution of the precious metal is such

as to make the production extremely inconstant.

The result of the above noted division in the distribution of gold is to make the seats of its production more variable and temporary than that of any other metal which has attained an important place in our arts. This point is well shown by the fact that, although the mines which furnished silver, iron, tin, lead, copper, and other metals in the Roman period and during the Middle Ages are still in many instances extensively worked, none of the fields which afforded gold in those periods are now the seat of considerable production. In fact, I cannot recall an instance in which a gold-bearing field extensively wrought during the last century is now an important

source of gold supply.

We have now to consider the probability of new discoveries which may lead to the development of unknown gold fields. The fact that gold remains in the streams as a residuum arising from the erosion of the rocks containing auriferous lodes, makes it extremely easy to discover deposits of this nature. It is safe to say that not a stream bed in the United States, in regions where the existence of gold can be suspected, has escaped the study of the prospector. A few hours' work with a miner's pan will adequately determine the chance of finding important deposits of gold in the region whence the stream drains. It may therefore be assumed that, in a general way, we know the auriferous districts of the United States. Local discoveries of particular lodes may be made; but here again the extremely careful search to which the country has been subjected makes it improbable that any fields comparable to those which have been found within the last fifty years will be brought to light. The same may be said of Europe and Western Asia. Even the central and eastern portions of Asia have long been the seat of sufficient civilization to have their possibilities of gold supply in a measure known. It seems to me doubtful if the Asiatic field ever affords extensive areas whence may come supplies of gold comparable to those of Anstralia and California. The greater portion of South America which is likely to contain gold has also been the seat of very careful search for this metal. Patagomia and the eastern versant of the Andes remain essentially unexplored, but it does not seem likely from the little we know of the geology of these districts that extensive gold deposits will be discovered there.

Those parts of Australia which have a character as regards climate and water supply, fitting them for the needs of the miner, appear on the whole to have been tolerably well explored. The recent extensive discoveries in that country seem to indicate, liowever, that we may still look to it for the supply of this metal. In North America there remains a considerable area in Alaska and in the northern part of the Dominion of Canada, beyond the limits of settlements, where we may reasonably expect to find considerable gold fields. The conditions of climate in a large part of this region are against the success of all forms of washing, and it is therefore to the lodes alone that we must look for any important supply which this region may afford. Africa is the only continent where we may fairly expect to discover important and as yet untouched fields of gold supply. The little we know concerning the structure of the continent leads us to suppose that it may prove auriferous beyond the average of land areas. The recent discoveries in the southern portion of the continent give

great promise of extensive production from that part of the world.

Thus as regards the future possible sources whence low-cost gold may be obtained, we may sum up the facts as tollows: By far the greater portion of the gold-bearing rocks of the land areas have already been subjected to careful search. The greater portion of the conveniently winnable alluvial deposits of the land areas have already been exhausted, and probably a larger part of the rich auriferous lodes discovered. In my own opinion quite three-fourths of the possible sources of supply are now tolerably well known, and a greater part of them either exhausted or so far explored that we may not look to them for any sudden accession of supply. With the present rate of advance of civilization on barbarism, it seems safe to say that in fifty years we shall have compassed the resources of gold which are likely to be profitable in the present or foreseeable extension of our mining arts. Each subsequent discovery is likely to give a temporary increase in the store of gold from the winning of the superficial gold-bearing detritus, followed, perhaps, by a long-continued production from the lode deposits. When this work of exploration is done and all the fields known, a continuous supply will depend on the complicated equations between advancing arts of applying power and the demand for the precious metal.

It does not seem possible that the metallurgical art, as applied to the winning of gold, can be carried much further than it is at present. Some diminution in the cost of production will doubtless occur from inventions and discoveries yet to be made, but the recent history of the arts involved in winning gold appears to indicate that we have attained very nearly to the ultimate point of economy in the treatment of

auriferous ores. • The recent discoveries in the application of electrical energy enables us to foresee that within a short time wind power, by the intervention of storage batteries, may enable us to work mines in situations where the difficulties of obtaining fuel are such that mining is now impossible; but this line of invention can only apply to certain small parts of the earth's surface which are destitute of fuel. The facts on which I have founded the above-noted statements lead me to the following conclusions: First, that gold is more likely to become an article of increased cost within the coming half century than any other metal. That is measured in the terms of day's labor, it is likely, each decade, to cost more than any other metal which is now the object of extensive search, except it may be tin. When once the alluvial deposits have been exhausted and the richer mines have been worked to the depth where the difficulties arising from internal heat and the incursion of water are considerable, the cost measured in terms of labor will rapidly increase. Individually, I am of the opinion that measured in terms of labor the gold won during the past decade has cost more than that produced in any of the preceding four decades of this century, though I have no great confidence in my judgment on this point.

#### DISTRIBUTION OF SILVER ORES.

Owing to the fact that it does not readily combine with other elements, gold, despite its weight, has been widely disseminated in the rocks. Silver being far more oxidizable, has a much more limited distribution over the surface of the earth. It is also less commonly found in profitable quantities, at least in original lodes, than in the case of gold. Thus, while the eastern part of the United States has probably produced in the aggregate more than \$3,00,000 in gold, the total amount of silver which it has contributed to the markets of the world is certainly less than a million dollars. Owing to the readiness with which it is oxidized, silver is never found, at least in important quantities, in detrital deposits derived from the ablation of lodes containing that metal. The total area of the earth which has contributed gold to our markets is probably twice as great as that which afforded silver in commercial quantities.

During the past ten years no new and important sources of silver supply have been developed. Many new lodes have been discovered, but these have all been in fields where there had already been reason to suspect the existence of such deposits. On the other hand, silver-producing deposits appear to have a continuity not found in the case of gold-bearing veins. Thus there are many mines, as, for instance, those of Saxony, which have produced silver for several centuries and still maintain their

In part the greater continuity in the production characteristic of silver mines as compared with those of gold may be accounted for by the fact that the ores of silver are generally associated with those of lead and copper, metals which are accumulated in deposits of considerable thickness and mass. Probably more than one-half of the silver production which has been contributed to the world's market during the last century has been afforded from mines where the metal has been found associated with lead or other substances, which have in part repaid the miner for his labor. This association of silver with other valuable materials, making it in some cases a by-product and in others a more important element in the result obtained by the miner's labor, tends, in a way which is readily understood, to increase the production of the substance and also to keep that production in a less variable position than in the case of gold.

The larger part of the gold now accessible to the miner is contained in gravels and must be won by sluicing or hydraulic mining. Experience in California and elsewhere shows that the processes of winning this alluvial gold leads to the destruction of the regimen of the rivers into which it is discharged, to the complete ruin of the area which is searched for the metal and also to the injury of a wide field of agricultural land in the regions adjacent to the streams into which the débris is discharged. It is not too much to say that each dollar of gold which is won by hydraulic processes, when they are carried on in a large manner, necessarily brings about several dollars' worth of damages to the interests of men in the time to come. So grievous has been this damage to the immediate interests of the agriculturists that in California it has appeared necessary to prevent hydraulic mining by legislative enactment. There are probably areas on the earth's surface containing deposits of alluvial gold where the hydraulic process may be carried on without the sacrifice of extensive tracts suited to agriculture, but they remain to be discovered. It seems to me that if the purchasing power of gold should be considerably enhanced by a diminution of the supply, this damage which comes from working alluvial deposits may become in time an important matter; at any rate, it deserves to be considered by economists.

By far the richest field in silver mines known in the world is included within the limits of the Cordilleran system, or great mountain chains which border the western shore of the American continents. The most important increments in silver pro-

duction which have taken place in modern times have been due to the contributions from this field. First came the influx of silver from the Andean division of this system. This South American product in time diminished as the mines from which it came were worked out or carried to a depth where further production was made impossible by difficulties encountered in deep mining. For a considerable period the Mexican mines had an important share in the production of silver. They, too, gradually lost their importance. About thirty years ago, access to the portion of the Cordilleran range which lies within the United States led to a great increase in the supply of this metal. The largest production was from the Comstock lode, a deposit which now appears, despite the very costly explorations, to be essentially exhausted. Long continued and careful search of the Rocky Mountain district and of the region on the west of that field has revealed a number of important silver deposits, which have contributed largely to the world's supply.

So careful and thorough-going has been the search for silver ores in the section of the Cordilleras which lies within the United States that we may assume that we have discovered all the large deposits of this metal which lie within that field. Although many lodes of economic importance have there been found, it is important to know that in no case within the last ten years have very extensive or highly productive veins been discovered. There doubtless remain scores of these deposits sufficiently rich for working, but it is highly improbable that we have yet to discover any sources of supply to be compared in importance with those of the Comstock lode or of Leadville. The Rocky Mountain district, owing to the character of its surface, is peculiarly well fitted to favor the work of the prospector. The covering of soil is thin and thus the character of the bed rock and its mineral contents is readily revealed. In my judgment this district has no great surprise in the way of silver pro-

duction to afford the world.

What we know of the distribution of silver in other countries leads me to the conclusion that no other field for the supply of this metal, comparable to that of the Cordilleras, awaits discovery. The Indo-European chain, extending from the Pyrenees to eastern Asia, evidently is not rich in silver ores. It is, indeed, the least metalliferous of our great mountain systems. There is no evident reason to look to the central parts of Asia for large silver supplies. Australia has not shown any signs of affording a large production of this metal. Africa, so far as known, does not promise to prove argentiferous, though we know as yet too little of the mineral resources to

have a decided opinion on this point.

It is to the unexplored portions of North and South America that we turn for the most of our expectations as to the future increase in the production of silver. The eastern parts of these continents are not likely to yield large amounts of this metal, . for the reason that despite the extensive search for mineral wealth to which they have been subjected, no important sources of supply of silver have been discovered. There are, however, considerable fields of the Cordilleran system which have not yet been explored by prospectors. In the United States, Mexico, Peru, and the greater part of Chili the search for these deposits has been long continued, careful and much favored by the character of the surface. We may, therefore, assume that in this section of the system, which includes nearly three-fourths of its area, there are few deposits of great importance which await discovery. The extreme southern portion of the system, that which lies in Southern Chili and Patagonia, is essentially unexplored. So, too, the section north of the United States is to a large extent unknown as regards its mineral resources. These two unexplored regions include perhaps one-fourth of the Cordilleran system. There are reasons, which I cannot here discuss, which lead us to the opinion that these unexplored fields are likely to show fewer important silver deposits than those areas in the Cordilleran field which have been the seat of mining industries; but even if we assume that equally large deposits exist in those regions, the total production which they may afford is not likely to be very great.

There is an important question concerning the future product of the Cordilleran silver-bearing fields in Mexico and South America to which we must now turn our attention. The mines which were worked in these countries in the three centuries preceding our own were generally abandoned on account of the depth to which their workings had penetrated. Modern speculators have assumed that the introduction of better mining machinery might again bring about a great production from these abandoned mines of Peru and of Mexico. Many experiments in reopening these ancient mines have proved unfortunate. The reasons for these misadventures are easily seen. While the modern machinery and methods of mine working have certain great economical advantages over the ancient processes, the cost of labor has so far increased with the development of civilization and of commerce in these regions that it more than offsets the advantages of improved mechanical appliances. These mines were in the main worked under a system of peonage or slavery, at a time in the world's history when the cost of labor in Europe, as compared with that in South America and Mexico, was greater than at present. Although the method of working followed in the Mexican and Peruvian mines was rude, it enabled the managers to win the richer portion of the lodes, leaving only the poorer for the modern explorer. Moreover, the physical difficulties attendant upon the reopening of ancient mines, difficulties arising from the bad condition of the worked ground, are often very serious. In my opinion, no great increase in the supply of silver is to be apprehended from the re-

working of these abandoned mines.

There remains the question whether the incidental production of silver obtained from the working of lead, zinc, and copper ores is likely in the future to be an important element of supply. At present, as before remarked, the production of silver from mines in which the lead or other base metal is a large element of the profit is considerable. It seems likely that in the time to come the production of silver found in combination with other valuable metals will be more important that it is at present. At present, the lead produced in silver mining affords a large part of the return from the mines which produce the metal. So extensive is this contribution of lead from silver-bearing ores that a greater part of the mines of lead which do not produce at the same time a considerable amount of the more precious metal have been abandoned. In other words, lead is now mainly produced as a valuable by-product in the mining of silver. If lead should increase in price it would diminish the cost of producing silver.

It does not appear to me likely that the demand for lead will rapidly increase in the time to come. This metal, which was at one time extensively used for a great variety of purposes, is now in the main used for small projectiles and for making paint. Its use for pipes has gradually diminished; iron and other metals have taken its place. The diminution in the price of copper has also tended to displace it in the market. Moreover, the price of lead has of late been singularly steadfast, though the average market value exhibits a great diminution within twenty years. I am inclined to think that the consumption of this metal is likely to diminish rather than increase in the time to come, and that we may not look to any increase in the silver production dependent on an enhancement of the value of this associated metal. The silver obtained in copper mining is less considerable in quantity than that which is won from lead mines. Furthermore, where this metal is combined with copper in intimate mixture, as it generally is, separation is attended by peculiar difficulties, which make it unlikely that we shall see in the time to come any considerable increase of silver from this source of supply.

My survey of the silver problem from a geological and geographical point of view has led me to the conclusion that this metal is likely to be produced in rather less quantities during the remainder of this century than during the last twenty years, and furthermore, that in the nineteenth century, saving for unforeseeable improvements in mining and metallurgical processes, the production is likely to undergo a steadfast diminution. So far as a decrease in the purchasing value of this metal depends upon an increase in the quantity produced, it appears to me that we may dismiss our anxieties. A greater portion of the lands which are likely to yield silver in large quantities have been explored. Within ten years, despite the wonderfully active search for precious metals, no very important sources of supply have been discovered. Although the production of the Rocky Mountain districts may be somewhat increased by the work of numerous small mines, it seems more likely that at the present price of silver the product of that region will remain steadfast or be subject to a gradual

diminution.

On the other hand, in the case of gold, we are clearly liable to many sudden increments in the production, followed by periods of diminished supply. If the only problems before the students of the questions connected with currency were those of a geological nature, the preference as a measurer of values must, in my opinion, undoubtedly be given to silver, for the reason that not only has the supply of that metal been more constant in the past than that of gold, but for the reason that in the future the yield promises to be less subject to sudden variation than in the case of the more precious metal.

N. S. SHALER. Geologist U. S. Geological Survey.

EDWARD ATKINSON, Esq., United States Commissioner, &c., &c.

LETTER FROM JAMES D. HAGUE, ESQ. (AUTHOR OF MINING INDUSTRY, VOL. 3, U. S. EXPLORATION OF THE 40TH PARALLEL).

NEW YORK, October 27, 1887.

DEAR SIR: I have the honor to acknowledge the receipt of your letter asking my views upon the present and prospective product of silver in ratio to gold. Other engagements have prevented an earlier reply, and I regret to say that, as I am about to

leave for California, my time is now so fully occupied that I am unable to give to your inquiry the carefully studied consideration it deserves. I can, under these circumstances, only say, very briefly, that, so far as my general knowledge of current mining operations in the West enables me to judge, there is no visible indication of a largely increased production of silver in this country in the near future. On the contrary, at the present market price, I think the silver product is more likely to diminish than to increase. Chances which no one can foresee may at any time lead to the discovery of new and very productive silver mines; and if the price of silver should by any means be advanced to the old standard value, it would doubtless result in reviving many small mines which are now idle because they can only lose money under existing conditions while they might realize some profit in producing and marketing silver at \$1.29 per ounce; but, giving these possibilities all due consideration. I think the probabilities are in favor of a somewhat diminished rather than a largely increased output of silver during the next few years. Taking a general view of the gold mining industry of this country it seems to me to have increased in activity during late years, and some moderate gains in the annual product of that metal may reasonably be expected.

Very truly yours,

JAMES D. HAGUE.

EDWARD ATKINSON, Esq., Boston, Mass.

#### LETTER FROM PROF. ROBT. H. RICHARDS.

Massachusetts Institute of Technology. Boston, October 29, 1887.

My DEAR SIR: Your favor of October 16 was duly received, and in answer to your question as to "what my views may be upon the present and prospective production . of silver relatively to gold," I will say: The production of silver in the United States seems to have been increasing prettily steadily up to date. In 1870 it was about \$17,000,000, and in 1885 \$51,000,000 per annum, while gold seems to have reached its maximum in 1852, with \$60,000,000 in that year, and to have then fallen gradually to \$41,000,000 in 1878. It then dropped suddenly to \$32,000,000, this falling off being due to the stopping of the hydraulicking in California and to the working out of the great ore body in the Consolidated Virginia property. Since 1879 the gold production has remained about constant, varying between \$31,000,000 and \$32,000,000 per aunum.

The history of all silver-rich countries, when mining was in its primitive condition, goes to show that they have passed through successive stages. First, a period of discovery, followed by great mining activity; secondly, a period of working out the mines, and gradual falling off of production and finally of closing up the mines.

There seems to me to be no good reason why the United States should not follow the above rule, except for the age of advancement in which we live. We seem to be reaching our climax in silver activity at a period which is coincident with a period

of great activity in discovery and invention. Our great finds of ore bodies have probably been mostly made, and we are now in our period of great mining activity, but the period of falling off and decline will probably be much longer postponed here than it has been in other countries, because of the development of the science of mining, enabling us to work much deeper into the

Take for example the great Comstock lode. Before 1879 it went through a period of almost unparalleled production. Then came a period of falling off; no more rich ore bodies were found to take the place of those which were worked out. The closing up of the mines was imminent. But quite recently the art of concentrating Comstock ores has been perfected and now the mines are entering upon a new lease of life. The ore bodies that were not rich enough to be worked in the bonanza days are now being mined and concentrated. This discovery will postpone indefinitely the closing of the mines. They will probably continue for a good many years to produce silver at

a profit. Leadville has had its boom and depression and has now settled down to steady production for a number of years to come of low grade ores, which are nevertheless worked at a profit.

Central City and Georgetown, Colo., and many other places have been through simi-

lar periods and are in the steady business stage now.

ground, and to work much closer in our processes.

It seems necessary to interpolate in the consideration of the United States, therefore, after the period of discovery and great profits and before the period of closing up, another period, namely, that of close business management and of careful scientific mining, milling, and smelting.

In the United States there have been no startling discoveries of silver for a number of years; no Comstock, no Leadville, no Hornsilver, no Ontario, no Butte; and yet the production of silver has gone on increasing steadily. I think this must be due to increased perfection in appliances, enabling us to go deeper and work closer. As to how long this increase can go on, and after it has ceased how soon a fall of any considerable magnitude will follow, could, I think, be better estimated by some of the officers of the U.S. Geological Survey, of the Census of 1880, or of the United States Mint.

Now as to the relative advance in silver and gold. Silver is evidently still increasing with its \$51,000,000 production in 1885, and gold is about holding its own at \$31,800,000 in 1885. But the gold quartz mines while they are generally in the same condition as the silver mines, namely, in the period of careful business management and scientific milling, they, however, differ from them in this respect, that the gold mines appear to hold their riches to a greater depth than the silver mines, and hence the former will probably last longer than the latter. And again, there are large areas of ground in California available for drift mining for gold which are as yet untouched.

On these accounts I am led to the opinion that the period of decline in the production of gold is more distant than that of silver.

Respectfully yours,

ROBERT H. RICHARDS, B. S., Professor of Mining and Metallurgy.

EDWARD ATKINSON, Esq.

LETTER FROM ROSSITER W. RAYMOND, PH. D., SECRETARY OF THE AMERICAN INSTI-TUTE OF MINING ENGINEERS.

NEW YORK CITY, October 21, 1887.

DEAR SIR: In reply to yours of October 14, relative to the present and prospective production of silver, I can only say that in my opinion a rise in the price of silver would be followed by an increase of the present production; for I know of large quantities of low-grade silver-ore which are constantly seeking a sale at the smelting works, but in vain, because the price of silver now leaves no margin to the owners of the ore after smelting charges have been deducted. I can not, however, estimate the extent of the increase, nor can I say how long it would continue. The extent of our undeveloped resources is, of course, unknown. Still, I will frankly say that in my opinion it is large, and that the restoration of the former gold value of silver would affect a great quantity of ores for many years to come.

I am not a bimetallist, as that term is commonly applied. If the United States is going to continue coining legal-tender silver money, I think it should make the dollar heavier. I also think that this would make the dollar a bigger nuisance than it is now. Consequently, I would prefer a limited legal-tender quality for silver, and a

gold standard.

Unfortunately I am too greatly pressed with other (and imperative) work to accept your kind invitation to give you my views at length, as I should be otherwise glad to do.

As to the future price of silver, I think it is "down to stay," and we shall not see it again where it was before, in your lifetime or mine. I do not mean that it may not rise somewhat above the exceedingly low price of to-day.

Yours, truly,

R. W. RAYMOND.

EDWARD ATKINSON, Esq., Boston, Mass.

#### LETTER FROM J. S. NEWBERRY.

School of Mines, Columbia College, New York, November 9, 1887.

DEAR SIR: In compliance with your request I send you herewith a brief statement of my views in regard to the probable future of gold and silver.

GOLD.

I have been for many years more or less occupied in studying the production of gold and silver throughout the world, and have myself visited all the important mining centers within our own territory. I began my observations in 1855 in the gold-bearing districts of California during the period of the greatest productiveness of our

placer deposits. Since then I have spent a part of nearly every summer among the mines of the West, and have just now returned from the last of these trips through some of the newer mining camps of Colorado. The result of this experience has been to convince me that our production of both gold and silver has passed its maximum, and that in the future we can not expect a yield of more than perhaps one-half the great-

est annual product of gold.

Probably nine-tenths of all the gold obtained by man has been taken from placer deposits, and American experience has been no exception to the general rule. Previous to 1847 our total gold production amounted to \$12,000,600; but between 1847 and 1837 about \$1,750,000,000 have been contributed to our stock of gold. Of this fully three-fourths came from placer deposits. In 1850-1856 we obtained more than \$50,000,000 per annum in gold from our placers and almost nothing from gold bearing veins. Now, with an annual production of \$30,000,000, about one-half is from placers. Our own territory has been so thoroughly explored that no considerable superficial deposits of gold are likely to be discovered; and nearly the same thing can be said of the entire world.

In the northern extension of our Western mountain ranges, in British Columbia, and Alaska there are probably important deposits of gold. These mountains are everywhere auriferous within our territory. In Alaska gold mines are successfully worked in a few localities; gold is reported from many others. Dr. George M. Dawson has also found indications of gold for 500 miles along the mountains north of Frazer's River. Hence we may hope that a considerable contribution may be made by Northwestern America to the gold product of the world. It is likely, however, to come from this region in a moderate but perhaps perennial stream, and not in a flood. Great difficulties will attend the working of mines and especially placer deposits in the mountains of Canada and Alaska. The winter is long and terribly severe and the snowfall heavy, limiting active operations to three or four months in the year; the surface is very much broken, entirely unproductive, covered with a dense forest, and peopled by unfriendly Indians. All supplies must be imported by long, rough, and expensive routes. These difficulties will restrict the production of gold to such a degree that unless the mines and placers should prove to be rich beyond all present indications, the gold product of this region must have a good and not a bad influence on the finances of the world.

Eastern North America contains in the Alleghany belt a vast quantity of gold, but this is generally in the form of low grade pyritous ores, difficult to treat. With skill, energy, and economy they may, however, be worked at a profit, and we may look upon them as offering a handsome reward for the exercise of these cardinal business virtues and as promising to supply a not strong but steady stream of this financial vital

fluid.

Mexico has no important deposits of gold. For three hundred years her territory has been explored and her mines worked by an industrious and avid race of miners who would certainly have discovered and unearthed any considerable golden treasure. In a few localities gold veins and surface deposits are worked, but the relative quantity of this metal is everywhere small, and the rain-fall has been in the past too slight to furnish the motive power for extensive erosion, as it is at present insufficient to supply the needed water for successful gold washing. When no revolutions have interfered with the production of precious metals in that country, Mexico has steadily yielded about \$1,000,000 per annum in gold. This contribution may be kept up for years, but can hardly be exceeded.

The western coast of South America, so rich in silver, is, like Mexico, poor in gold. The superficial deposits which formerly existed there were diligently worked and practically exhausted by the icarial population. We learn from the Spanish chronicles that a very large sum was realized by the invaders from the golden decorations of the Temple of the Sun at Cozco, and that many of the vessels with which the prison chamber of the unfortunate Atahualpa was filled wore composed of gold; but since that time the gold product of the whole coast from Ecnador to Chili has been insignificant. The mines which subsequently poured hundreds and even thousands of

millions into the Spanish treasury yielded only silver.

Colombia, Venezuela, and Brazil have, on the contrary, always been producers of gold. It is estimated that from Brazil alone more than \$1,000,000,000 in gold were obtained during the first two hundred years after the advent of the Portuguese. Colombia and Venezuela are now yielding about \$4,000,000 each, annually, but the great Callao mine, which furnished one-third of this sum, has of late greatly fallen off in its productiveness. The superficial gold mines of this portion of South America were diligently worked by the ancient inhabitants, and they probably secured the greater part of the gold they contained. The gold images which they buried with their dead are now sought by a special class of miners, if such they may be called, who exploit the old cemeteries with considerable success, and gold washing is carried on in many localities; but these gold fields are no longer virgin ground, and we can not expect them in the future to yield more gold than they do at present.

The gold production of Australia has been but little inferior to that of our own country. At first it was exclusively from the placer deposits, and when the richest of these were worked out the yield was greatly reduced. It has, however, been revived by the development of reef-mining and the annual yield from both sources is now about \$30,000,000. We may hope, too, that the present rate of production will be

maintained or approached for many years to come.

The great Asiatic continent once had its famous gold mines like America and Australia, but it has been so long occupied by a dense human population that its stores of gold have apparently for the most part been exhausted. The Chinese, the Hindoos, the Tartars, and their ancestors, who so long occupied the interior of Asia, have all been diligent gold hunters, and they have left no stone unturned beneath which this, the first found and most highly prized of metals, could be concealed. From the continent of Asia and its dependencies we can, then, expect little more than the present modest contribution, which may reach four or five millions of dollars per annum.

The gold product of Europe is now perhaps \$30,000,000 a year; of this nearly all or about \$25,000,000 comes from the Ural Mountains. The gold mines here came under the control of the Government in 1820, since when a steady stream, an average of over \$20,000,000 per annum, has flowed from them into the treasuries of the world. How long this contribution may continue we can not say, but it is scarcely likely to

change much for some years to come.

It is possible that important discoveries of gold may be made in as yet unknown veins and placers in Africa, but the latter is improbable. The placers of Ethiopia, as we learn from the Egyptian records, were worked as early as sixteen hundred years before Christ, and we have reason to believe that the surface deposits of that continent, as well as those of Asia, were mostly exhausted before the Christian era. The working of mineral veins has hardly been attempted by the barbarous native population of Africa, and it is quite possible that stores of gold deeply buried in the earth, beyond the reach of savages, but destined to be exploited with the advance of civilization, will form an important factor in the future history of gold. The "golden sands" which have become inseparably connected with our ideas of "the dark continent" must lead up to sources in gold-bearing veins which in the future and for

centuries may help to keep up the world's needed supply of gold.

With these facts in view we need not expect any other such floods of gold as those that inundated the markets of the world from the placers of California, Australia, and New Zealand, but the present yield of about \$100,000,000 is likely to be maintained for some years. Individual mines have but a limited term of service, and it is not likely that many gold mines like the Comstock and the Callao remain to be discovered. Hence, placers and great mines are not likely to be disturbing elements in the gold market, but the more thorough examination of the different countries will bring to light more productive ground; railroads and other channels of travel and traffic, and improved processes for treating refractory and low grade ores, will bring within reach and render productive thousands of minor gold deposits which will go to maintain the aggregate production. The world's stock of gold will gradually decline from the diminished supply, the increased consumption in the arts, the abrasion of coin, etc., but this change must take place slowly, and inventions like that of Cowles' electric process in metallurgy may give us substitutes for gold of equal value in the arts.

#### SILVER.

The problems of the future in silver production seem all to lie within our own country. The great silver belt of the world crosses our territory from British Columbia to Mexico and stretches thence southward to Chili. It is interrupted only at the Isthmus, where it is submerged. From this belt more than \$6,000,000,000 have been taken since the discovery of America, and here we must look for the signs of promise in the future production of silver. As I have before said, within our territory the silver product is not likely to increase, but is almost certain to decline, though perhaps slowly, and we may expect our mines to yield \$40,000,000 to \$45,000,000 per

annum for many years to come.

Mexico has continued for half a century to produce annually about \$25,000,000 in silver to \$1,000,000 in gold. There are no indications that this state of things will soon change. It has been predicted that with the introduction of foreign capital and improved machinery the production of the Mexican mines would be greatly increased, but the experience of the last five years has not confirmed such predictions. The Mexicans are experienced miners, skilled in producing great results by simple means, are frugal, industrious, and peaceful, and it is very doubtful whether the extravagant, impatient, and speculative Yankee, with all his improved methods and machinery, will often succeed, where the patient, close-working, and economical Mexican has failed. No one knows a good thing when he sees it better than a Mexican miner and none is less likely to relax his hold when once he has his grip upon it. I think it will be rarely found that a mine abandoned by the Mexicans is worth working, and

I am quite sure that we are not to have any considerable increase in the silver product of Mexico.

The silver mines of Peru and Bolivia (Cerro de Pasco and Potosi) are the most famousin the world. No one knows exactly how much silver was taken out of them, but Chevalier estimates it at \$2,493,426,880. They have produced comparatively little for many years, but it has been generally believed that when the railroads, commenced by Henry Meigs, should be carried into the countries where the mines are situated, and modern skill, capital, and machinery be brought to bear upon them, they would still yield incalculable sums. All this is, however, a figment of the imagination. Recent thorough explorations of these mines by American experts, continued through two years and aided by the diamond drill, have failed to discover any bonanzas in either of these mines. Low-grade ore there is in plenty and that which may perhaps be worked with a small margin of profit, but as disturbers of the public peace in the financial world the South American silver mines need not be feared. In the last report of the director of the mint the yield of the silver mines of Bolivia is estimated at \$16,000.000 per annum, but I am led to believe that it is much less, probably not half of this amount. Chili is now producing about \$6,000,-000 in silver per annum and it is scarcely probable that this sum will ever be greatly exceeded. The mines of Copiapo have certainly seen their best days, and those of Caracoles, more lately discovered, will never rival these in productiveness.

The silver production of America is about three-fourths of that of the whole world, and the sources of silver elsewhere are so widely scattered and individually so unimportant that they can have little bearing on the future history of this metal. From America then, if from anywhere, must come the overwhelming floods of silver, which in the minds of some persons threaten disturbance and disaster in the financial world. After a careful survey of the field, however, I see no indications of any future glut in the silver market. The mines of Mexico and South America for three hundred years have been worked by those who possessed skill, energy, and economy, and they have taken from them year by year all they were capable of yielding. Whoever comes after them will find that they have skimmed the cream of all the known ore deposits, and have been so thorough in their explorations that there is little chance of the discovery of others from which sums can be realized which can disturb the money market.

It should be remembered that these countries are easy of exploration, are mostly without timber, and are traversed by mountain ranges, of which the details of structure are everywhere visible. I think then that I am quite safe in saying that no danger of financial disturbance need be apprehended from the silver mines of Mexico or South America.

Whichever way we look, therefore, we fail to perceive any indication of storms in the business world such as might be occasioned by great changes in the production of either of the precious metals; certainly no threatenings of a sudden or serious increase in the annual production of either. On the contrary, a different and much more formidable danger is to be feared, viz, a gradual exhaustion of our mines and the diminution of the stock of gold and silver now on hand below the point where they best serve the world's purposes. Indestructible, uncreatable, readily divisible, easily coined, widely distributed, but nowhere abundant, they have been proved by long experience unique in their adaptation to the wants of society as representatives of value and circulating media. They are equally necessary and both indispensable to the safe and easy transactions of the commerce of the world. It would be a great misfortune, therefore, if either should be produced in such redundance or deficiency as to seriously disturb the relations which they have sustained to each other and to man's daily labor, which is the real unit of value.

I am happy to assure you that with my lights I can perceive no indications that either of these dangers is imminent.

J. S. NEWBERRY.

Mr. EDWARD ATKINSON.

#### LETTER FROM RAPHAEL PUMPELLY.

DEPARTMENT OF THE INTERIOR, UNITED STATES GEOLOGICAL SURVEY, Newport, R. I., November 16, 1887.

MY DEAR SIR: On returning from a journey I find your note of the 4th inst., saying that any communication must be sent you within a week. On the whole it does not make much difference as regards me, for on thinking it over I find that my facts are few, so I should not attempt even with time to write anything.

I will give you here my crude impressions. It seems probable that the product of silver will on the whole continue to increase with fluctuations; the discovery of new mines compensating for the exhaustion of old ones, while the growth of economy in

mining and reducing and the diminution of the amount wasted in tailings and slag will give an increase. But a greater gain must come from improvements that will render workable the large bodies of ores that are of too low a grade to work profit-

ably at present.

From time to time there will doubtless occur, as in the past, discoveries of great bodies of rich ores which will temporarily swell the products. This can hardly fail to occur with the advance of means of transportation into the cordilleras. But it seems to me that these same remarks apply to gold as well as to silver. Here, too, there will be an increase through the opening of new mines and economies in work-

With regard to great discoveries it would seem that they are even more likely in regard to gold than to silver. The great silver fields of the world have been in the cordilleras of the two Americas. But the gold fields exist in the Americas, Australia, Asia, and Africa. And there is this to be considered in regard to the future of gold—that, while in the past the product has been practically wholly from ores carrying only free gold, processes will undoubtedly be perfected that will open to profitable working the large quantities of ores carrying gold in sulphurets and arseniurets, etc.

I am inclined to believe that gold is more widely distributed than silver. As far as our present information extends, it would seem to be much more abundant in solution in the water of the ocean than silver; for Soustadt finds 1 grain gold in 1 ton sea water, while Malaguti and Durocher found only 1 centigram silver in 1,000 kilograms of sea water.

I see no reason to suppose that the cost of producing silver will be capable of any

great reduction.

Very truly, yours,

RAPHAEL PUMPELLY.

EDWARD ATKINSON, Esq., Boston, Mass.

NOTES ON THE RELATIVE PRODUCTION AND RELATIVE VALUE OF THE PRECIOUS METALS BY GEORGE F. BECKER, UNITED STATES GEOLOGIST.

Resources of the United States.—No one can doubt that the mining regions of the Rocky Mountains and of the Pacific slope are far from being exhausted; but even a vague idea of the prospective yield of the precious metals in the United States can hardly be obtained without considering the nature of the distribution of the ores. It has long been known that a great part of the deposits of the Pacific slope are grouped in belts or zones, nearly parallel to the mountain ranges of the region.\* The precious-metal belts of the slope are reducible to three, viz, the gold belt of California, the silver belt of Arizona, which is prolonged northward into Nevada, and the lead-silver belt of Utah, lying at the western base of the Wahsatch range. It has been shown within a few years that these belts coincide with zones in which profound disturbances have taken place in past time. It is along these lines that the great upheavals in the geological history of the region have occurred, transforming oceans into continental areas and burying vast tracts of land beneath the sea. The coincidence of these lines of disturbance with the ore belts clearly indicates a direct connection between the dislocations and the genesis of ore, and points to the conclusion that along the extensive unexplored or partially explored portions of the zones of disturbance ore deposits are probably to be found.

Not all the deposits of the Pacific slope occur on these belts, but, so far as is known, all of them are accompanied by evidences of violent dynamical action. This is also true of the less sharply defined metal-bearing region of the Rocky Mountains, which

also stretches in a northerly and southerly direction.

As may readily be inferred from these statements, there are a vast number of localities in the western United States in which the geological conditions appropriate to the occurrence of ore seem to prevail, but in which ore has not as yet been discovered. It is true that a great number of prospectors have traversed the country in all directions; but it by no means follows that, because much prospecting has been done, all the important deposits have been detected. Not only prospecting but mining was carried on close to the Comstock lode and close to Leadville for a considerable time before the existence of those great deposits were suspected, and prospectors had been at work for months close to the deposit of the Horn Silver mine before an accident revealed its unsuspected existence. Many other deposits have almost escaped detection, and a much more intelligent and thorough exploration of the country than any which has hitherto been made must precede the development of its full resources.

<sup>\*</sup> This was first pointed out by Prof. W. P. Blake in 1866. Mr. Clarence King further developed the idea in 1870. See Amer. Jour. of Science, vol. 28, 1884, page 209.

The course of discovery will no doubt be checkered. That there will be periods at which the known ore bodies will be few is pretty certain, and that deposits of startling richness will be encountered is almost equally certain. The Comstock lode was considered nearly worthless property just before the discovery in the Consolidated Virginia and adjoining mines of the great ore body, which alone has yielded some \$120,000,000 worth of silver and gold. The incident was typical, and the same sort of thing has happened at short intervals throughout the history of deep precious-metal

mining. Probabilities as to relative production of gold and silver.—Since the discovery of gold in California the weight of the silver extracted in this country has been about seven times that of the gold. It is practically certain, however, that in future the relation will be a very different one. From the discovery of gold in California up to the close of 1860 the silver product was very small, while the gold product averaged \$50,000,000 a year. This gold came chiefly from the auriferous gravels of California, which had been accumulating for many hundred thousand years. Corresponding accumulations of argentiferous gravels are not found in nature, although the croppings of silver veins, like those of gold, are converted into detritus. Silver ores are for the most part brittle and easily reduced to powder; they are only moderately heavy, and are without much difficulty converted into a soluble double chloride. Consequently, when the croppings of silver veins are worn away by the weather or by running water, they rarely yield argentiferous gravels of any value. Gold, on the other hand, is tough, heavy, and chemically indifferent. Hence the gold derived from the erosion of veins accumulates in gravel deposits, while most of the silver is carried away. In a new mining country, therefore, there is a surface accumulation of easily accessible gold but no such store of silver, and the early precious-metal product of such a country will include a proportion of gold far in excess of that in its subsequent yield.

The richest auriferous gravels in the United States have been exhausted. Vast quantities of poorer gravels remain in California and Idaho which could be profitably mined by the hydraulic process, but the prosecution of this industry in California has for the most part been forbidden by law. By no means all the gold of the country, however, comes from gravels. Even during the census year, when the hydraulic mines were in full operation, nearly twice as much gold was produced from deep mines as from placers. A very large part of the gold extracted also comes from mines commonly regarded as silver mines. Even the Comstock lode, the enormous silver product of which gave great uneasiness, has yielded a very large quantity of gold, estimated to amount to no less than \$130,000,000, or over 40 per cent. of the value of the total yield of the lode up to June 30, 1890. In the Austin district the silver carries no appreciable amount of gold, but the gold in the ores of Eureka is worth at mint rate about half as much as the silver. At Leadville the gold produced is insignificant, and even this is not derived mainly from the great lead deposits but from auriferous

ores obtained in the surrounding country."

In 1883 the United States produced by weight 24.6 times as much silver as gold. In 1884 the same ratio rose to 25.3, and in 1885 it reached 26.† The production of each of these metals has been increased during these years, as well as the ratio of the weight of silver to that of gold. It is of course improbable that this ratio will rise indefinitely or even regularly. Some idea of its ultimate mean value may perhaps be obtained from that of the entire product of North and South America since their discovery. I have calculated this ratio for the two continents from 1493 to 1875, from data given by Dr. Soetbeer, and find it 29.1. It appeared best not to include the last ten years because of the depressing influence which the discount on silver exerts upon the mining of that metal. There seems no good reason to suppose that the average proportions of gold and silver in the unmined deposits of the western United States are likely to differ greatly from those in the average deposits hitherto worked in this hemisphere. If any variation is found, the future ratio will probably exceed 29.1 if the price of silver sinks no further, because this number is derived from data which include very large quantities of placer gold, certainly over 3,000,000 kilograms, while in the future product of the United States placer gold will be a less and less important item. The ratio of the weights of the two metals for the whole world from 1493 to 1850, or up to the time when the gold of California and Australia began to affect the proportion sensibly, was 31.5. The placer deposits of Europe were of course worked for many centuries before the discovery of America, and the high ratio for this period is no doubt due to that cause.

The effect of the price of silver on the production.—The average cost to the producers of extracting gold and silver is probably from 90 to 95 per cent. of the spot value; for while many establishments work at a great profit, others are doing dead work, or are working at a loss from lack of skill or judgment. There can be no doubt what-

<sup>\*</sup> S. F. Emmons, Geology of Leadville, page 545.

<sup>†</sup> These ratios are computed from the products as given by Dr. J. P. Kimball in his Report upon the Production of Precious Metals for 1886, p. 133.

ever that very many mines in the West are working on a narrow margin and that any considerable further discount on silver, under the present economical conditions, would result in closing them. It is well known that because of the depreciation of silver, not a few mines are already shut down, which at the old value, \$1.2929 per ounce, would yield a good profit. It is, therefore, very absurd to suppose that this country can yield an indefinitely large product at the present price of silver, or at a lower one.

On the other hand, the statistics show a slow but steady rise in the production of silver in spite of the progressive decline of price. This is in part due to new discoveries, but, in my opinion, much more to the increased facilities for transportation, and the consequent cheapening of supplies in the mining districts. Railroads are now penetrating the far West in every direction and the emigration to the Pacific coast is so large that the price of labor must inevitably sink far below the old standard of \$4 a day. When means of transportation and labor become abundant, very many deposits which have long been known, but which were difficult of access and could not be worked at a profit under the conditions which formerly prevailed, will be worked either at the present or at a somewhat lower price for silver. Improvements in processes of extraction will of course be made, but so large a proportion of the cost of extracting silver now consists in the expense of mining and of handling the ore, bullion, and waste products, that no probable improvement in metallurgical processes will greatly diminish the cost of products.

On the whole, I am unable to see grounds for supposing that there is any impending dearth of silver-bearing deposits. At present prices the yield seems to me likely to increase much as it has done during the past years, or possibly somewhat more slowly. Lower prices will unquestionably check the increase, and if the price sinks sufficiently it will inevitably result in a diminution of the product; but it hardly seems possible that any one should be able to say how great a diminution in price

would preclude an increase in the production.

Future of production in foreign countries.—The silver question is of course not dependent upon the United States alone. Mexico and South America together have produced in past times vastly more silver than this country, and their present output still notably exceeds our own. Like our own, too, it appears to be on the increase in spite of the discount on silver; and the development of means of transportation is increasing to the south of us as well as within our borders. Indeed, the entire silver product of the world shows a marked upward tendency, while the gold product has been until lately diminishing, though a considerable increase has taken place since 1882. It is by no means certain that the gold product of the world will again fall off. The hydraulic gravels of South America have only lately been taken in hand, and nothing is more probable than that they will immensely increase the world's gold product. There can be no doubt also that the gold product of South Africa will increase.

Judging of the precious metal resources of the world from the recorded yield of the mines for about four hundred years, it seems probable that, as the more easily worked placers become less fruitful, the ratio of the silver product to the gold product, by weight, will tend to some value not far from 30. There is, in my opinion, good reason to believe that this product ratio was very much lower in Europe during ancient times and the Middle Ages, as well as in Asia in modern times. Gold occurs to a large extent in the native state, and no knowledge of metallurgy is necessary to its extraction. Silver, on the other hand, occurs only to a small extent in the native state, and a vast proportion of this metal is found in mineral combinations which were practically intractible by the methods known to the ancients. Two great American inventions changed the whole character of the industry and far more than doubled the available silver resources of the world. One of these was the amalgamation process, invented by Medina, a Mexican, in 1557. This was complemented, in 1633, by the invention of the first efficient furnace for the reduction of quicksilver. The inventor was L. S. Barba, a Peruvian, and his apparatus is known as the aludel furnace. It is worth while to note that both in ancient Rome and in modern Asia silver was worth much more in gold than it has been in Europe since the process of amalgamating silver ores was discovered.

Relations of the demand for coin to the product.—The general question of the relations between the supply of precious metals and the prices of commodities is evidently one of the most complex in political economy, for the opinions of financial experts differ radically respecting almost every feature of the problem. I should not think of offering any opinion upon it as a whole. The question whether or not there is a scarcity of gold is more limited and simpler. While eminent authorities have maintained that there is a dearth of this metal, Mr. J. L. Laughlin\* shows that the gold reserves in the principal banks of Europe and America were not only much larger in 1885 than from 1870—74, but also that they bore a much larger proportion to the total note circulation. He also points out that extraordinarily high rates of discount, supposed to

<sup>\*</sup>Quarterly Journal of Economics, vol. 1, p. 345.

indicate dearth of gold, prevailed much more frequently from 1855 to 1873 than since 1873. Dr. Soetbeer has given the results of an investigation on the distribution of the gold product in a tabular form, of which the following is an abstract:

Estimated changes in the monetary stock of gold in civilized countries 1851-'85.

Periods.	Gold prod- ucts.	Non-mone- tary con- sumption.	Addition to gold coin- age and re- serves.	Estimated stock of gold coin and gold reserves at end of pe- riod.
1850	Kilograms.  2, 006, 000 1, 900, 000 1, 782, 000 746, 000	<b>Kilograms</b> .  385, 000 877, 000 958, 000 574, 000	Kilograms.  1, 621, 000 1, 023, 000 774, 000 172, 000	Kilograms. 1, 200, 000 2, 821, 000 3, 844, 000 4, 618, 000 4, 790, 000

If one compares the third column with the first, it is easy to compute the proportion of the gold product which has been added to the available stock of gold coin in each period. It then appears that for these periods, beginning with 1851-760, the proportions of the gold product added to the available stock of coin have been, in round numbers, 81 per cent., 54 per cent., 45 per cent., and 23 per cent. Now, if there has really been a scarcity of gold of late, why was only 23 per cent. of the gold product added to the available coin of the world during the period 1881-'85? The contrast offered by these figures can also be brought out in another way. In the period 1881-'85 the gold product was 37 per cent. of the product in the ten years 1851-'60; but the gold coin added to the available stock in the five years 1881-785 was only 11 per cent. of that similarly added in 1851-'60. Thus the additions to the available coin have diminished more than three times as rapidly as has the product. It might possibly be objected that Dr. Soetbeer's figures are not accurate, and indeed he claims only approximate accuracy for them; but the work done by this statistician is far too good to warrant the assumption that any corrections would reverse these striking results. They, with those obtained by Mr. Laughlin, seem to me to show incontrovertibly that the supply of gold is in excess of the demand for coin. It would be in vain to attempt to maintain that the non-monetary uses of gold have become so urgent as to absorb an increasing proportion of the gold product in spite of an active demand for the metal in the shape of coin, for, were this true, it is evident that in no long period such uses would absorb the entire quantity of gold in existence.

Dr. Soetbeer feels himself unable to offer a similar table for silver; but, since the silver product has of late years rapidly increased, and in 1885 was about double the average product from 1866 to 1875, it seems very certain that it too is produced in excess of the demand for coinage. This is also inferable from the tables of coinage, for while much silver coin in withdrawn from the available stock by exportation into central Asia and much is also melted down for industrial purposes, it is clear that no silver not coined can possibly be added to the available stock of coin. Dr. Kimball† gives data for the world's product and the world's coinage of silver, which it is worth while to place in conjunction.

#### [Silver at \$1.2929.]

	1883.	1884.	1885.
World's product	\$114, 128, 907 109, 306, 705	\$115, 859 5C7 90, 039, 443	\$124, 422, 842 97, 341, 019
Excess of products	4, 822, 202	25, 860, 124	27, 081, 323

<sup>\*</sup> Materialien, 2d ed., p. 47. †Production of the Precious Metals, 1886, pp. 133 and 319.

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It thus seems to be clear that during the past years the product of both the precious metals has been far in excess of the increase in the volume of gold and silver currency demanded by commerce. This certainly does not seem an unnatural result if one compares the average products of these metals for different periods. For this purpose I select the periods 1851-1885 and 1801-1850, adding also 1493-1850. The data for the computation are taken from Soetbeer, excepting those for the years 1883-1885, which have been last revised by Kimball.

Total products and mean annual products.

	1851–1885.	1801-1850.	1493-1850.
Total product, gold	Kilograms. 6, 402, 243 182, 921 57, 145, 444 1, 632, 727	Kilograms. 1, 184, 870 23, 697 32, 723, 450 654, 469	Kilograms. 4, 752, 070 13, 274 149, 826, 700 418, 510

Prior to 1851 precious metals enough for the purposes of trade were coined, and a large volume was also lost to Europe and America in central Asia, or was industrially consumed. Since that period there has been an immense increase in the amount of business done, but the annual gold product is seven and one-half times what it was during the first half of the century, and the annual silver product is two and one-half times as great as it then was. The volume of commercial transactions has, of course, increased enormously in forty years, but balances only are settled by coin, and I can see no reason to believe that the requisite yearly addition to the coin supply has increased in a proportion so great as the precious metal product.

Relative prices and relative product.—It seems probable from the above that the available quantity of the precious metals up to some epoch subsequent to 1850 was no more than sufficient to satisfy the urgent demand upon it, while in later years one or both of the precious metals have been produced in greater quantities than were necessary to satisfy the pre-existing demand. The question therefore suggests itself whether the price of silver in terms of gold may not have been determined by distinct causes in the two periods.

Gold and silver are so similar in their physical properties that they are used for almost exactly the same purposes, and in nearly all cases one could be substituted for the other without any detriment to the end in view. If zinc and tin were as similar as gold and silver, it is at least natural to suppose that the rarer of the two would command a higher price than that which was more common, and that the prices of the two would tend to be inversely proportional to the quantities produced, so that if the zinc product were eight times as heavy as that of tin, a pound of tin would be worth eight times as much as a pound of zinc. As a matter of fact much less tin than zinc is produced, and the price of tin greatly exceeds that of zinc, but as these two metals can be substituted for one another only in certain cases, the relative price differs considerably from the relative product.

Through the compilations of Dr. Soetbeer it becomes easy to examine the relative price and relative product of the precious metals, though neither he nor, so far I know, any other writer has compared these two ratios or presented any table of the relative products at different periods.\* The following table shows the periods for which I have computed the ratio between the silver product and the gold product, and the periods for which the average prices of silver in gold have been calculated. The estimates of production from which the product ratios have been calculated are those given by Dr. Soetbeer,† excepting 1883–1885, which are those of the Director of the Mint.‡ The relative values of the metals, or the number of pounds of silver which a pound of gold will buy, are recorded by Dr. Soetbeer § from 1493 to 1875. The later figures are from Dr. Kimball's report.

<sup>\*</sup>The time allowed me for the preparation of these notes is insufficient to make a search through economic literature sufficiently thorough to justify an absolute assertion on this point.

<sup>†</sup> Materialien, etc., p. 1. Dr. Kimball's figures for 1883-1885 are given in his Report on the Production of the Precious Metals, 1886, p. 132.

<sup>†</sup> These are preferred simply because Kimball has revised them since Soetbeer's figures were published. The oftener such estimates are revised the more accurate they become.

<sup>§</sup> Edel-Metal-Production, 1879.

Mean annual product, relative product, and relative value of gold and silver, 1493-1885.

•	Mean annu	al product.	Ratio of silver	Ratio of value per
Period.	Gold.	Silver.	product to gold product.	kilogram gold to ailver.
	Kilograms.	Kilograms.	-	
1493-1520	5, 800	47, 000	8. 1	*10.75
1521-1544	7, 160	90, 200	12. 6	†11. 25
1545_1560	8, 510	311, 600	36. 6	111. 30
1561-1580	6, 840	299, 500	43.8	11. 50
1581-1600	7, 380	418, 900	56. 8	11. 80
1601–1620		422, 900	49. 6	12. 25
1621-1640	8, 300	. 893, 600	47.4	14. 00
1641–1660	8, 770	<b>366, 3</b> 00	41.8	14. 50
1661-1680	9, 260	337, 000	36. 4	15. 00
1681-1700		841, 900	31.8	§14. 97
1701-1720	12, 820	355, 600	27.7	
1721-1740		431, 200	22. 6	15. 08
1741-1760	24, 610	538, 145	21. 7	14. 75
1761-1780		652, 740	31.5	14. 73
1781-1800	17, 790	879, <b>06</b> 0	49.4	15. 09
1801-1810	17, 778	894, 150	50. 3	15. 61
1811-1820	11, 445	540, 770	47. 2	
<b>18</b> 21–1830	14, 216	460, 560	32. 4	15. 80
1831-1840	20, 289		29. 4	15. 60
	54, 759	<b>596</b> , 450		
1841-1850		780, 415	14.3	15. 83
1851-1855	199, 388	886, 115	4.4	15, 41
1856-1860	201, 750	904, 990	4.5	15. 29
1861–1865	185, 057	1, 101, 150	5. 9	15. 41
1866-1870	195, 026	1, 839, 085	6. 9'	15. 56
1871-1875	173, 904	1, 969, 425	11.3	15. 98
1876	165, 956	2, 323, 779	14.0	17. 88
1877	179, 445	2, 398, 012	13.3	17. 22
1878	185, 847	2, 551, 304	13. 7	17. 94
1879	167, 307	2, 507, 507	15.0	18. 40
1880	163, 515	2, 479, 998	15. 2	18.05
1881		2, 592, 639	16. 3	18.10
1882	148, 475	<b>2, 769,</b> 065	18.6	18.10
1883	144,727	<b>2</b> , 7 <b>4</b> 6, 123	19. 0	·18. 64
1884	153, 193	2, 788, 727	18. 2	18. <b>5</b> 7
1885	159, 289	2, 993, 805	18.8	19. 41

<sup>\*</sup> For the period 1501–1520.

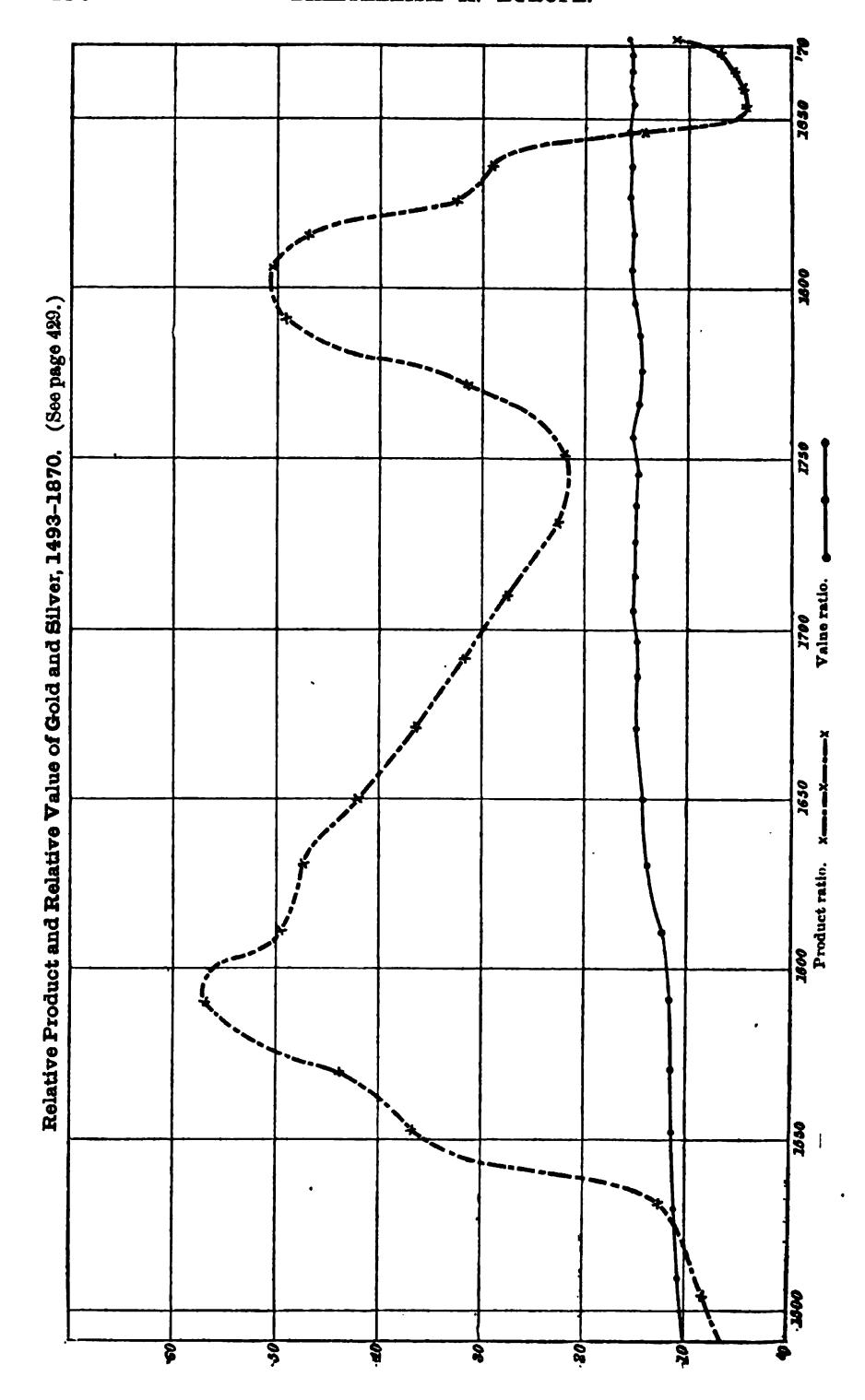
In the diagram on page 430 I have plotted the two ratios for each period given in the table from 1493 to 1870. The horizontal distances are proportional to the time, and the two curves represent the ratios. Each value of the product ratio, or of the average yearly product (by weight) of silver divided by that of gold, is marked by a cross, and each value of the value ratio, or of the number of pounds of silver which

The diagram shows most manifestly that during the period 1493-1870 the relative product exerted little or no influence upon the relative value. Between 1600 and 1650 there was a small rise in the relative value of gold, which is, perhaps, ascribable to the great rise of the product ratio. This reached a maximum in 1600, and its increase was caused by the great output of Potosi soon after the discovery of the amalgamation process. After 1650 the relative value remained between 14 and 16. As the value curve is plotted from data for the mean value for several years, it is important to observe that there were no considerable minor fluctuations which have been obliterated by taking averages. Soetbeer gives the value for each year from 1687 onward, and in no single year between that date and 1870 did the mean value ratio exceed 16.25 or fall short of 14.14.

In the diagram on page 431 similar curves are shown on a larger scale and in more detail for the period 1866-1886. It will at once be noted that from 1873 onward the two curves show the strongest sympathy. Every fluctuation in each is accompanied by a similar fluctuation in the other. No one accustomed to the study of relations as represented by curves could hesitate to conclude that a very intimate relation existed between these lines, and that the two ratios which they represent are connected in the most intimate manner. The probability against such a number of corresponding fluctuations being accidental is so great that it may be pronounced substantially infinite.

f For the period 1521–1540. ! For the period 1541–1560.

<sup>§</sup> The curve is plotted for periods of ten years from 1680 on to 1850.

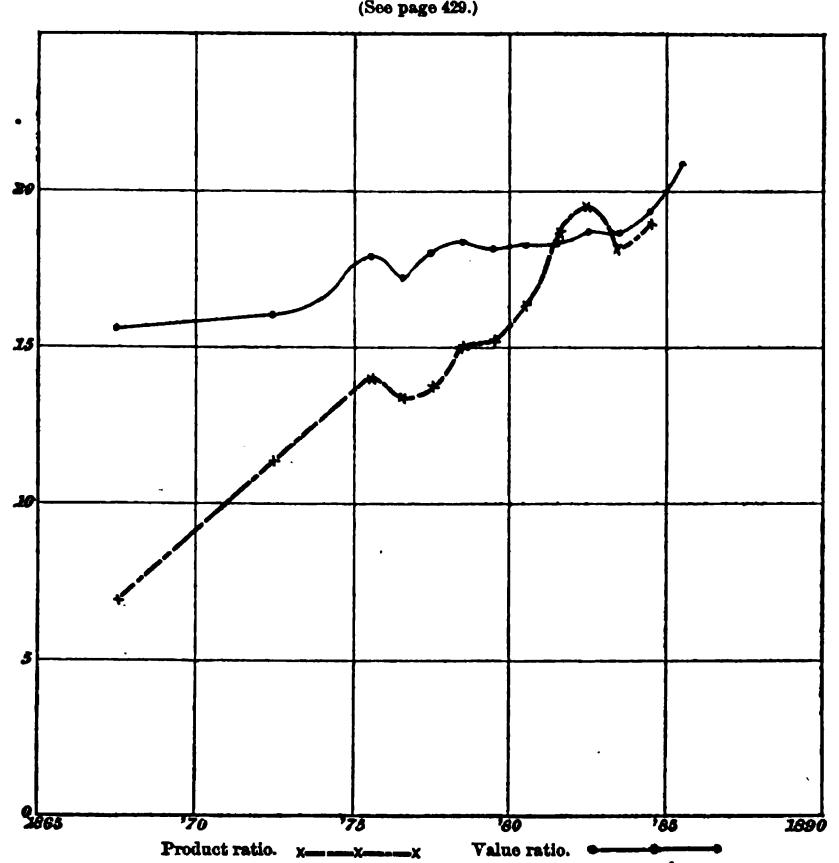


It appears, therefore, to be certain that since 1873 the price of silver has been chiefly determined by the relative production, or perhaps more strictly, that the two ratios have exerted a strong mutual influence, while it is equally certain that from 1650 to 1872 the price of silver and the relative production of the two metals were independent. It is most important to ascertain the cause of this difference between the

two periods, if possible.

Cause of the difference before and after 1873.—Aside from this relation between the two ratios, the most striking difference between these periods is the average annual production, and the cause of the change in the law governing the price of silver seems probably connected with the change in the annual yield of the mines. The increased yield after 1850, however, did not affect the price immediately, or, indeed, for a considerable number of years, showing that a certain accumulation of the precious metals was necessary to induce a change in the conditions governing the price of silver.

Relative Product and Relative Value of Gold and Silver, 1866—1886.



The statement that the value of silver relatively to gold remained substantially constant for over two hundred years at about 1 to 15½ is equivalent to the statement that in such quantities as silver bullion was offered to buyers it found a market at that price, and that silver coin was always exchangeable for gold at the same figures, How did it happen that although the ratio of production fluctuated enormously, and presumably also the relative quantities of coins of the two metals, neither metal was depreciated? The answer I believe to be very simple. It is evident that people who handle money care very little, under ordinary circumstances, what is the nature of the money in their possession, provided that, when they choose, they can exchange it at par for other forms of currency. After United States notes became redeemable in gold there was no run upon the Treasury, because holders of the notes were sure of

being able to get gold for them whenever they wanted it. In the same way token coins are as freely received in trade as gold is, so long as it is known that they will be redeemed on demand. Under certain still to be investigated conditions, therefore, any country could at will vary the proportions of gold and silver in the currency, provided that a sufficient reserve of each metal was always maintained to meet any probable sudden demand for the exchange of one for the other. Under such conditions it is evident that great fluctuations in the product ratio could occur without impairing the ability of commercial nations to redeem, in gold, quantities of silver sufficient for the needs of the community, at the legally established ratio. So long as this remained possible the price of silver could not vary considerably. No one would sell silver below the coining value when he could get that rate for it from the Government, and no one would pay a higher price for silver when he was at liberty to exchange gold coin for silver coin dollar for dollar.

This stability in the price of silver could be maintained only so long as the quantity of circulating medium demanded by trade, added to the inevitable losses and waste of the metals and to the quantity urgently demanded at the standard price, or above it, for industrial consumption, and for permanent exportation to semi-civilized countries, equaled or exceeded the available supply. It is clear that this state of things is compatible only with a moderate production; for the moment that more of either metal was put on the market than could be absorbed in these ways, it would be more profitable to the producers to submit to a discount than to hold their bullion. If the surplus were not a mere local and temporary matter, the price of silver in terms of gold would rise or sink all over the world. If silver were the metal in excess, it would drive gold out of circulation in those countries where an attempt was made to retain silver as a standard, and could circulate only as a token coinage in those countries which adhered to gold. If gold instead of silver were in excess, the parts played by the two metals would be reversed.

Great fluctuations in the ratio of the gold product to the silver product can thus occur without necessarily affecting the price of silver to a considerable extent, so long as the total product of the precious metals does not exceed the demand of the commercial world for coin, plus the demand for these metals at coining rates for non-

monetary application. Under these circumstances the mints completely control the precious metal market, and make the price of silver to suit themselves. But when the quantity of the precious metals produced exceeds the limit just defined, the mints, being unable to increase their output beyond the needs of the commercial world for coin, can not possibly retain control of the market. The relative value of the two metals will then cease to be fixed by coinage laws, and will be determined by purely commercial considerations. As has already been pointed out, whenever trade rela-

ency for the prices to adjust themselves in the inverse ratio of the products.

It is certain that prior to 1873 the coinage laws fixed the price of silver, and that the national treasuries were able to control the market for silver, for in no other way could considerable fluctuations have been avoided. It is also certain that in 1873 the laws ceased to determine the price, as if there were an excess of silver in the market, and that since that time the price of silver has been chiefly determined by the ratio of the production of silver to that of gold, as it would be if either of the two metals were produced in excess. The analysis of Dr. Soetbeer and the coinage statistics also show that a diminishing proportion of the yield of each metal is added to the available stock of coin. All of these facts point to the conclusion that the supply

of silver is now greater than the demand for it at coining rates.

Probabilities as to the future prices of silver.—Silver producers and all those interested in obtaining good prices for silver naturally wish that the value ratio should return to 15½, and desire legislation tending to produce that result. It seems to me conclusively shown above that the volume of the precious metals is greater than the demand for them at coining rates, and that the market for silver is therefore no longer under the direct control of the coinage laws as it was prior to 1873. This being the case, no mere readjustment of the proportion of gold and silver in circulation will materially affect the price; for no more currency can be forced upon the commercial world than is demanded by the exigencies of trade,\* and the quantity of the precious metals in the market beyond this amount is now sufficient to determine their relative price irrespective of the coinage laws.

Since, then, the mints can not now put into circulation all the silver not demanded at or above coining rates, they stand in the market on the same footing as other buyers. It is conceivable that the commercial nations should agree to buy silver in any quantities which might be needful to raise the price of silver to coining rate, paying in gold or in Government securities and withdrawing the silver not needful for

<sup>\*</sup>When a nation obtains money from abroad and spends it rapidly at home, a local inflation of the currency with its attendant disasters occurs, but the coin rapidly redistributes itself. Under normal conditions there exists no machinery for putting more coin into circulation than is called for.

coinage from commerce. This seems to me the only way open to any buyer to control the market, and it seems to have been the way in which the treasuries of the world did control the market prior to 1973. The peculiarity of the earlier period consisted in the fact that the surplus of the precious metals not needed for coinage and not called for in open market at coining rates was nil, whereas it is now very great. If, in 1885, some \$24,000,000 worth of silver had been withdrawn from commerce, in addition to what was actually withdrawn, the weights of the remaining gold and silver products would have been to one another in the inverse ratio of their coining value per ounce, and, according to the results deduced above, the silver left in the market or in circulation would have tended to the rate of \$1.2929 per ounce. The price, however, could now be raised to this figure so cheaply, for great quantities of silver have been withdrawn from circulation by individuals at the low prevailing rates of late years, and a sudden large rise in price would bring much of this once more into the market, where it would produce the same effect as newly-mined metal. A rise of price would also be a great stimulus to the silver industry, and the output

would quickly increase by millions of dollars.

It is manifest that the commercial nations could not be brought to embark in so hazardous an experiment as the attempt to maintain the price of silver at the expense of an increase in expenditure or in debt which would certainly amount to tens of millions of dollars yearly, and which might reach \$100,000,000. This being impracticable, I believe the price of silver to be wholly beyond their control. Half-way measures would not answer the purpose, for, if the commercial nations were to agree to coin for private account a quantity which, though large, should prove insufficient to raise the price of silver to coining value, and were at the same time to make silver redeemable in gold, the result would simply be a run on every treasury and the exhaustion of the gold reserve. This would amount to the adoption of a silver standard, and gold would then be quoted as at a premium, but the relative values of the two metals would not necessarily be changed; for as long as the mints could not control the market for both gold and silver, the relative values of the two metals would be determined by commercial considerations. Silver coined for public account while the market price of the silver is below coining rate is in every respect token money. The United States coin nearly thirty million silver dollars a year for the express purpose of raising the price of silver, and the price of silver, instead of rising, continues to sink.

As commerce grows the demand for the precious metals increases, and it is possible that this demand will eventually become so great that the price of silver will again come within the control of legislation; or, in other words, all the silver product not demanded at coining rates or above them for non-monetary consumption may come to be needed for coin; but there seems to be no immediate prospect of this. Though population is increasing very fast, the ratio of the silver product to the gold product is increasing still faster, and as South America and Africa become commercial countries they will demand gold for their international transactions as well as silver for home use. Indeed, the more commercial they become the more the character of their currency will approximate to that of other commercial countries. In the mean time their silver deposits will be worked. They can not be relied upon, therefore, to absorb the surplus silver of the world. I can but conclude that the time when the demand for coin will restore the value of silver to its old level is far distant.

Until that time comes the price of silver will, in my opinion, be chiefly controlled by the ratio of the weight of the silver product to that of the gold product. The product ratio will probably increase at a diminishing rate, because the price of silver will fall, and the production will be correspondingly lessened. The ratio of the value of gold to that of silver, which is already over 20, will, in my opinion, ultimately rise to above 25, and, from present indications, it is possible that it may touch 25 by the year 1900.

NOVEMBER, 1887.

These dollars pass at par in spite of the fact that their bullion value is only about 75 cents, because they are practically redeemable, although not nominally so. The Government receives from its debtors any of the kinds of money which it issues, and pays its creditors in any form of currency they may elect to receive. There is, therefore, as yet, no difficulty in returning to the Treasury any silver not wanted, or in obtaining from the Treasury an equal amount of gold. The silver dollars are thus, in fact, token money as much as are the nickel five-cent pieces. Both have an intrinsic value, though not that stamped on their faces. They pass current because they are redeemable.

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## APPENDIX D.

# MATERIALS

TOWARD THE ELUCIDATION OF THE

# ECONOMIC CONDITIONS

AFFECTING THE

# PRECIOUS METALS

AND THE

# QUESTION OF STANDARDS.

PRRPARED AT THE REQUEST OF THE

SOCIETY FOR PRESERVING THE ECONOMIC INTERESTS OF TRADE AND MANUFACTURES,

BY

AD. SOETBEER.

SECOND REVISED EDITION.

TRANSLATED BY

F. W. TAUSSIG, LL. B., PH. D.,

Assistant Professor of Political Economy in Harvard University.

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### TRANSLATOR'S PREFACE.

I have undertaken with pleasure the translation into English of Professor Soetbeer's materials on the silver question. No other such valuable and complete collection of facts and figures exists, and it can not but further the solution of that question to make them available to the English-speaking public. Professor Soetbeer has gathered and sifted his information with extraordinary care and industry, and his results

may be accepted and used with confidence.

The translation had to be done quickly, and it was not practicable to reduce the figures in the table to our system of weights and coins. Professor Soetbeer, however, has himself been so careful to reduce all important figures to terms of metric weights or of German coins, and has everywhere done so much to make comparisons easy, that little difficulty will be found in making all needed applications to our own country from his figures. The need of haste has also prevented me from revising the tables as carefully as I should have preferred. The printed sheets containing Professor Soetbeer's figures have been sent directly to the Government Printing Office, where they have doubtless been reproduced with accuracy. Lastly, I beg indulgence for imperfections in style which might have been avoided by greater deliberation. Accuracy has been aimed at above all things.

F. W. TAUSSIG.

CAMBRIDGE, MASS., November, 1887.

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#### PREFACE.

In the beginning of May, 1885, I was asked by the president of the Society for Preserving the Economic Interests of Trade and Manufactures to bring together "Materials toward the elucidation of the economic conditions affecting the precious metals and the question of standard of value," which were then to be published for the use of its members and others interested in these problems. The great extent of the task, and the peculiar difficulties of carrying it out with the necessary exactness and completeness, were immediately apparent to me, while, on the other hand, I had to acknowledge that it was timely and important in the present stage of the silver question. This last consideration, and the fact that I had already prepared materials relating to the question, finally overcame my hesitation, and I declared myself willing to undertake the execution of the desired publication. This was done, nevertheless, on the express condition that full assistance should be rendered by the Bureau of Trade Statistics in Hamburg, whose liberal assistance I had had the pleasure of enjoying in previous investigations. This was promised, and has been rendered to me, as well in the first as in the present second edition, in the most friendly and complete manner. If the materials here put together fulfill the intended purpose and prove of permanent statistical value, the credit belongs, after the original movers in the society mentioned above, to the complete and thorough co-operation of the Hamburg Bureau of Trade Statistics, and especially to its head, Mr. G. G. Heinz. Without this indispensable aid the present publication, notwithstanding all the previous preparation and all other aid, would have been quite impossible.

The supposition on which the work was undertaken was at first that it was only to have statistical and bibliographic contents, and that discussions of principle on the merits of and objections to the gold standard and the double standard, as well as controversies on coinage policy, were to be excluded. On that account the endeavor was made to render the selection and presentation of opposite opinions (in so far as their presentation was necessary to an understanding of the materials) quite impartial. Further, it was necessarily my point of view, when once the collection of materials had been taken in hand, to keep these as free as possible from all superfluous even though perhaps interesting discussions; while on the other hand desire for brevity, or consideration as to the number of pages, was not to induce me to omit or abridge anything which it was of practical or scientific interest to learn or to have completely presented. Consequently the Materials have become of considerably greater size than had been originally intended. We hope, however, that this will be so much the less a reproach, since the increase has been in part brought about through the fact that the information communicated by the great banks and other official sources, which has not before been brought together in such completeness, has been set forth in all detail.

The same considerations have been kept in mind in this second edi-For the rest, it has been completed in essential points, and in large part revised.

In the first place, and as a matter of course, the statistical results of the year 1885, and averages from 1881 till 1885, instead of those from 1881 till 1884, were inserted.

In regard to the other changes and revisions of importance, further

information will be found in the various parts of the work.

The first part of our work consists necessarily of surveys of the production of gold and silver. On this point we have used our own earlier estimates, and from these have taken in a concise abstract the more important points, with the needed explanations. For recent years the latest and most trustworthy data have been inserted; in part they have been reached through inquiries of the German diplomatic representatives in the different producing countries, which have been kindly undertaken at the request of the Ministry of Foreign Affairs in Berlin. The statements and estimates of the production of gold in recent times show a considerable decrease in comparison with the first decades after the discovery of the Californian and Australian gold fields. We estimate the production of gold somewhat higher than is usually the case in England and in the United States. The difference arises because we have felt compelled to put a higher estimate on the production outside of the United States, Australia, and Russia. This accessory gold production, if so it may be called, has been assumed by us to be for the last five years between 23,000 and 24,000 kilograms annually, which is rather too low than too high an estimate.

The approximate correctness of our estimate of the production of the precious metals we venture to emphasize the more because even in very recent times and in prominent publications dealing specially with such subjects (for instance, in the Journal of the Institute of Bankers, March, 1886, p. 176), strikingly low statements of the yearly productions of the precious metals appear. We reproduce the statements of Sir Hector Hay, there given, for the years 1881 to 1885, and opposite them place our own estimates:

	Go	1d	Silver.		
Years.	Hay's estimate.	Our estimate.	Hay's estimate.	Our estimate.	
1881	Marks. 392, 000, 000 330, 000, 000 330, 000, 000 330, 000, 00	Marks. 443, 000, 000 414, 000, 000 403, 000, 000 408, 000, 000 (ca. 410, 000, 000)	Marks.  376, 000, 000  401, 000, 000  360, 000, 000  346, 000, 000  350, 000, 000	Marks. 397, 000, 000 424, 000, 000 434, 000, 000 443, 000, 000 (ca. 453, 000, 000)	

Our detailed statements and estimates and reasonings in regard to the production of the precious metals in the important countries (see pages 17, seq.) should leave no doubt that these figures, as remarked above, are considerably within the facts, and are not to be considered as in any way exact.

For a long time, in the controversies over bi-metallism, the estimate of the varying gold and silver production from year to year was apt to An impartial consideration of the facts supports the view that, while in course of time the general conditions of the production of the precious metals may exercise a decisive influence, it makes little difference whether in particular years the production of gold and silver varies by a few per cents, or possibly by half a per cent. The total production of the precious metals from 1851 till 1885 may be estimated approximately at 6,383,000 kilograms gold and 57,564,000 kilograms silver. The annual production on the average of the last five years, 1881 to 1885, amounted to about 149,000 kilograms of gold, with a silver production of more than 2,800,000 kilograms, while on the average of the years 1856 to 1860 there were produced approximately 201,750 kilograms gold and only 904,990 kilograms silver.

The calculation of the value of the silver product has undergone an essential change in this second edition of the Materials. After the price of silver in recent years had undergone so enormous a change that the ratio of silver to gold in free markets was nearly 21 to 1, it appeared no longer proper to follow the former custom of estimating the value of silver throughout on the ratio of 15½ to 1. But, obviously, consistency required that if for recent times the actual ratio of silver to gold was to be used in calculations, this actual ratio should also be used, wherever possible, for earlier times, in calculations of the value of the silver product; for instance, for the periods when the ratio was less favorable to gold. If for the period 1881 to 1885 the kilogram silver was considered equal to 150 marks, German gold, then for the period 1581 till 1600 the

kilogram silver was to be reckoned as 236 marks of gold.

The second part gives monthly statements of the ratio between gold and silver from 1851 till August, 1886, on the basis of London prices of silver. Here there can be no question of any uncertainty in the data. In the decade 1841 to 1850 the average price of silver in London was 595 pence per standard ounce (ratio, 15.82 to 1); in the decade 1861 to 1870 it was nearly 60 pence (ratio, 15.48 to 1). In the first nine months

of 1886, however, it was only  $45\frac{3}{16}$  pence (ratio, 20.88 to 1)!

In consideration of the extraordinary interest which attaches to the great changes that have taken place in the course of centuries, and especially in recent times, in the ratio of gold to silver, we have considered it proper to treat the history of the ratio in the new edition with greater detail than in the first edition. We hope that this addition will be welcome to many readers. It will appear from it that more than two thousand years ago the ratio of the precious metals already occupied men's minds, and that in former centuries the relative value of gold rose con-

siderably within a comparatively short space of time.

The third part is concerned with the important and difficult task of the consumption and location of the precious metals. So much as is used for coinage may be ascertained with exactness from the records of the mints. Our figures show that, in civilized countries, in the period of thirty-five years, from 1851 to 1885, about 23,104 million marks of gold and more than 7,506 million marks of silver (nominal value) were coined; that is, considerably more gold has been coined than was newly produced in that period. This is explained by the circumstance that large quantities of gold coins have been melted down and recoined. In recent years such recoinages seem to have diminished very much, as regards those coins for which there is likely to be, sooner or later, a prospect of remitting them with profit to the country whence they came. In regard to silver coins, as well legal tender as subsidiary coins, the case is different. The coinage in civilized countries since 1875

by no means equals the production of silver, and what once has been coined remains in circulation, except in so far as it is retired by the governments or is lost.

The industrial use of the precious metals was first especially investigated by us in 1881, so far as it was possible to obtain information about it, although it was obvious at the outset that exact results were not to be expected. In the present Materials it has been attempted to complete and carry further the estimates on this point. According to these estimates it seems necessary to assume that, although the industrial use of silver in European countries is nearly stationary and is much below the recent production of silver, the use of gold for ornament and other purposes in the arts shows a tendency to grow, and absorbs a very considerable part of the annual production of gold. Upon the whole, the present annual industrial use of gold is estimated by us at, in round numbers, 90,000 kilograms. We believe that this estimate may be accepted, although the investigations which the Director of the Mint of the United States has made in regard to the use of the precious metals in the arts for the year 1885 show a considerable smaller use than a similar investigation indicated for the year 1883. (See below, pages 69, 70.) It must be remembered that in our estimate of the use of the precious metals in the arts not single years, but averages of several years, are considered, and that, if a partial diminution of the use of gold for certain kinds of ornament may appear, on the other hand the increase of population and wealth in the European countries in one or another way, no single way perhaps noticeable, lead on the whole to an increase of the non-monetary use of gold. In this third part a complete presentation is given, also, of the flow of the precious metals to eastern Asia, in which not only the enormous shipments of silver, but in recent years also the exports of gold, to India (amounting between 1880-781, and 1884-'85, to more than 94,000,000 marks per year) deserve special attention.

In the fourth part the much-discussed subject of the movement of the precious metals from country to country is taken up. In the statistics of the international trade of some of the most important countries the figures in regard to the export and import of the precious metals show, as our comparative statements make plain, the most extraordinary divergencies. It is much to be wished that the presentation of these divergencies for a series of years, especially in regard to France. may induce the authorities to investigate thoroughly (as has not yet been done) this state of things. It is the more welcome that in those countries which are above all to be considered, England and the United States, the general agreement of their statistics in regard to the movement of the precious metals during longer periods gives us an assurance that, on the whole, we have positive data for the approximate ascertainment of the most important international movements of the precious metals. The practical agreement of the figures in the statistics common to these two countries, which it is impossible to ascribe to mere accident, permits us to assume that the data of their intercourse in the precious metals with other countries do not vary too far from the facts.

If, notwithstanding the obvious inaccuracy of the statistics, our Materials present a series of tables in regard to the export and import of the precious metals in several countries, we have been influenced by the consideration that these figures, since put together for each country on the same plan, may serve for comparing different years with each other. There would have been no difficulty in increasing considerably

the number of such tables; but the need of conciseness required some limitation.

In the fifth part, which considers the probable supply of the precious metals on hand in European countries, we have given the information offered us in the most friendly manner, and in sufficient completeness, by the administrations of the leading banks. We have given separately the amounts of gold and silver in the great banks and in certain treasuries at the end of each year since 1871, and for certain banks since 1851, so far as positive statements were to be had. The extraordinary interest for the question of standards which attaches to these exact figures is obvious. Unfortunately there are gaps; but on the whole one grasps readily the shiftings which have taken place in the accumulation

of the great stock of gold and silver.

The development of credit and of clearing-house transactions in the wholesale trade of recent times has been the means by which the cash holdings of most great banks have remained in wonderfully small proportion to the enormous quantities and the gigantic total of the exchanges based upon them. A few decades ago, in the larger trading countries, these exchanges took place chiefly by means of bank notes, of which a larger or smaller part was not covered by coin. The rise of prices, speculation, and commercial crises, were in those times ascribed mainly to excessive issues of notes, and it was supposed to be of particular importance for commercial statistics to have continual information as to the notes in circulation and the coin held by the banks for their redemption. Since the accounts of most of the banks of issue state, in addition to the coin reserve, the amount of notes in circulation, it is possible to ascertain the amount of uncovered notes, which form an equally important and equally effective circulating medium as the notes represented by actual coin. Our materials give, in the usual manner, the note circulation indicated by the official statements. But we have not refrained from pointing out that checks to order, and deposits payable on demand, have been equally important for the quantity of the circulating medium and for the purchasing power in existence, as bank notes, and that in this state of affairs it would be more proper to set these obligations side by side with the note circulation.

We have put together (see page 109, below), according to the figures that lie before us (completing them by estimates in some cases) the coin holdings of the banks and certain treasuries at the end of calendar years, and the results, reckoned in German marks, are as follows:

Year.	Amount.	Year.	Amount.
1877	2, 850, 000, 000 8, 500, 000, 000 8, 790, 000, 000	1882 1883 1884 1885	Marks. 4, 070, 000, 000 4, 600, 000, 000 4, 680, 000, 000 5, 040, 000, 060

A continuous increase appears in these coin holdings, which form the secure metallic basis for the gigantic exchanges of domestic wholesale trade and for the international movement of gold. Whether this increase is to be explained by the fact that the ordinary use of money in retail trade continually dispenses with large quantities of gold coins, and permits these to flow into the banks, or whether, notwithstanding the decrease in gold production, considerable parts of the annual prod-

uct are added to the monetary gold supply, we do not undertake to say. Opinions differ on this point. But certainly a careful study of the changes in the coin holdings of the individual banks is of special interest, and complete and careful information in regard to it will be welcome. In the main, we have to deal here only with positive statistical facts.

To the general statement of the coin holdings of the banks we add in our Materials an attempt to estimate the total monetary supply of the precious metals in the different civilized countries. Our estimate of the presumable existing quantity is 13,212,000,000 marks of gold, and 7,843,000,000 marks of silver (nominal value). France has possessed for some time, and still possesses, by far the most important monetary supply of gold and silver.

The sixth part contains a general statement, for the period from 1851 to 1885, of the rate of discount at some of the more important centers of trade, giving the highest, the lowest, and the average rates in each year. It contains also a corresponding statement of the more important rates of foreign exchange. It goes without saying that we have made special endeavors to present these data correctly, from the best

sources.

The seventh and last part will perhaps excite the liveliest interest in many quarters, since it is concerned with the much discussed and difficult problem of the lowered level of the prices of commodities and the purchasing power of gold. This part has also been treated with the greatest fullness, since it was impossible to restrict the exposition to mere statistical data, but was necessary to communicate as clearly as possible the opinions and reasons of the opposing authorities and parties, and to present them without bias. We doubt whether we have succeeded in doing this in a manner that will satisfy all persons; but there has been no lack of good will.

We have given, as a rule, in the words of the writer himself, even though necessarily in a condensed quotation, the opinions put forth in recent times on this question by various authors—on the one hand by Goschen, Giffen, Herm. Schmidt, and Arendt; on the other hand, by Hansard, Nasse, a German manufacturer, and Leroy-Beaulieu. have given opinions of our own only on one point. We thought it desirable to call attention not only to those discussions of the purchasing power of gold which rests only on the wholesale prices of the most important commodities, but also to another side of the question of the value of money. Here, also, consistently with the general character of our investigation, we have refrained from general discussions and have let the facts speak for themselves. Before presenting the general statistical statements and combinations in regard to changes in the level of prices, we communicate a series of trustworthy data in regard to the changes that took place during the years from 1851 to 1885 in the cost of average living, in the wages of laborers, in salaries, in rents of dwellings, in rents of land, etc. These indicate that in such matters the purchasing power of gold by no means has that tendency to rise which is observable in the wholesale prices of commodities.

So far as regards the investigation of the changes in the level of prices, we have no longer given in this edition, with the former detail, the tables published in England, and the index numbers connected with them, in order that we might give greater space than was possible in the first edition to the ascertainment of the actual average prices of important commodities according to the Hamburg trade statistics. We have now given the average prices for one hundred and fourteen articles (adding, as a

necessary supplement, to the hundred selected articles of the Hamburg statistics, fourteen English articles of export), and have given them not only for periods of several years, but also in detail for each year from 1851 to 1885, with the corresponding index numbers. The wish for such a completion of the statistics of prices has been urged from several sources, and the propriety of such a wish had to be admitted. We are by no means disposed to set aside the objections which can be brought forward against too implicit a reliance on the so-called index numbers (the per cents. of the comparative average prices of many commodities in different years or periods), yet we believe that in this presentation of the movement of the prices of one hundred and fourteen carefully and impartially selected important commodities, the method of index numbers supplies an approximately sound basis for conclusions as to general prices. In any case, this comprehensive and clear presentation by the Hamburg bureau of trades statistics is an important contribution to the understanding of the recent development of trade.

Although our Materials, notwithstanding all the attention and care devoted to their collection and preparation, and notwithstanding their greater volume, will not satisfy even in the present enlarged edition all demands, we may yet hope that they will be of permanent value as a source of information in these discussions. We trust they may also serve for the easier procurement in the future of needed trustworthy statistical information. It will be a comparatively easy task to gather and to use in better form, on the basis of these materials, further more

important data, which will serve to complete and continue them.

Contemporaneously with this volume, and based upon it, there will appear a separate sheet entitled, "Graphic Charts on the Silver Question."

In conclusion, we beg to express our sincere thanks to those who have aided us in the friendliest manner by their many valuable communications.

AD. SOETBEER.

Göttingen, October 1, 1886.



## PART I.

PRODUCTION OF THE PRECIOUS METALS.

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# PART I.

PRODUCTION OF THE PRECIOUS METALS.

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# PRODUCTION OF THE PRECIOUS METALS.

GENERAL STATEMENTS OF GOLD AND SILVER PRODUCTION IN THE YEARS 1493-1885.

The following general statements are based on the volume entitled, "Production of the Precious Metals and Ratio between Gold and Silver from the Discovery of America to the Present Time," by Dr. Adolph Soetbeer, Gotha, 1879, 4to, and on an essay by the same writer in the Jahrbücher für National-Oekonomie und Statistik (new series, Vol. II, Jena. 1881), entitled "The Statistics of the Precious Metals in 1876—1880." For the years since 1880 the most recent statements and estimates have been consulted.

The statements of weight refer to kilograms of pure silver and pure gold.

In the statements of value the kilogram of gold is reckoned as equal to 2,790 marks (3,4444 francs). The kilogram of silver was reckoned in the first edition of this work, on the usual plan, as equal to 180 marks (2223 francs). In this reckoning the ratio 151 to 1, regarded for a long time as normal, was used. Strictly speaking, this reckoning was justified only in the period from the beginning of this century till about the year 1870. Its application for the subsequent years was permissible so long as the average price of silver, after 1873, had not changed very much from the supposed normal price, and so long as the opinion was entertained in many quarters that the fall in the value of silver was a temporary phenomenon and that the former ratio would soon reappear. But after the depreciation of silver had again set in, and gone farther, in 1885, and the prospect for a so-called reinstatement of silver, or for the establishment of a double standard in civilized countries on the basis of the former French ratio, had disappeared, it seemed necessary to abandon the uniform reckoning of the value of silver, and to undertake the reckoning with a consideration of the actual ratio to different periods.

So far as the period from 1687 till 1886 is concerned, there is little difficulty in making such a reckoning, since, as will appear below, the average annual ratio for this period can be positively ascertained. On the other hand, in regard to the ratio during the period before 1687, we are compelled to use estimates, and therefore the statement of the value of the silver product from 1493 to 1686 in terms of present gold coins (marks or francs) can be only an approximate one. But, however great may be the possibility of error in such a new calculation, for long periods in this early time, of the value of the silver product, it must be admitted that it comes closer to the facts than the method which assumed the same ratio for all periods.

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In the statements of the production in single countries, ores containing silver and gold, and exported, are not considered, but the metals extracted from such ores are ascribed to the countries where the ores were treated.

1. Total production of the precious metals.

\* Reckoned in marks.

# 2. Detailed statements of the production of the precious metals, 1851-1885, by weight. PRODUCTION OF GOLD.

verage of the years	Kilos.						
1851-1656 1856-1660 1861-1865 1866-1670 1671-1875 1 the year— 1876 1877 1878 1879 1880 1881 1882 1868	88, 800 77, 100 60, 700 76, 000 59, 500 60, 000 70, 300 70, 800 58, 300 54, 200 52, 200	#6104. 69, 573 82, 892 77, 634 73, 526 63, 129 49, 156 45, 045 48, 747 43, 807 45, 215 45, 564 44, 075 40, 765 42, 490	Kilos. 24, 730 26, 570 24, 084 30, 050 33, 380 33, 600 41, 000 42, 100 42, 100 41, 400 38, 500 38, 500 35, 908	#ilos. 7, 710 7, 000 7, 650 6, 940 7, 240 7, 200 7, 100 7, 200 6, 700 6, 700 6, 800 6, 400 8, 000	Kilos. 8, 575 8, 688 8, 989 8, 510 10, 655 16, 000 16, 000 16, 000 16, 000 16, 000 16, 500 16, 500 16, 500	#\(\text{ifor.}\) 199, 388 201, 750 185, 057 195, 026 173, 904 165, 956 179, 445 185, 847 107, 307 163, 516 158, 864 148, 475 144, 545 146, 161	171, 45 179, 17 163, 67 160, 15 155, 01 148, 93 141, 72 142, 38

2. Detailed statements of the production of the precious metals, &c —Continued.

PRODUCTION OF SILVER.

Periods and years.	Menico.	Peru, Bolivia, Chili.	United States.	Germany.	Other countries.	Total.	Estimate of Director U. S. Mint.
Average of the years— 1851-1855 1856-1800 1801-1865	Kilos. 468, 100 447, 800 473, 000	Kilos. 218, 600 190, 400 191, 100	Kilos. 8, 300 6, 200 174, 000	Kilos 48, 900 61, 510 68, 320	Kilos. 144, 155 109, 080 194, 730	Kilos. 886, 115 904, 990 1, 101, 150	Kilos.
1866-7670 1871-1875 In the year— 1876	520, 900 601, 800 601, 000 634, 000	229, 800 874, 700 350, 000 850, 000	301, 000 504, 600 933, 000 957, 000	89, 125 143, 060 139, 770 147, 612	198, 200 285, 045 00	1, 339, 065 1, 969, 425 2, 323, 779 2, 388, 612	2, 174, 610
1678 1679 1680	644,000 699,000 701,000 721,000	350, 000 350, <b>00</b> 0 850, 000	1,080,370 961,000 942,087 1,034,649	107, 988 177, 507 186, 011 186, 990	00 00 00 00	2, 551, 364 2, 507, 507 2, 479, 998 2, 502, 639	2, 282, 57 2, 318, 78 2, 326, 94 2, 458, 32
1882 1893 1884 1885	738, 000, 739, 000 785, 000	390, 000 510, 000	1, 120, 083 1, 111, 457 1, 174, 205 1, 241, 000	214, 962 235, 963 248, 117 278, 900	00 00 00 (1 10)	2, 769, 065 2, 895, 520 2, 957, 322	2, 690, 57 2, 812, 97 2, 770, 61

According to the preceding figures, with estimate of the quantity for 1885, the total production of the precious metals from the close of the fifteenth century to the discovery of the Californian and Australian gold fields, and thence to the year 1885, has been:

Periods.	Gold. Str		81140	for.	
From 1493 to 1850 (358 years)	Kilograme. 4, 762, 070 6, 383, 888	Per cent. 42. 7 57. 3		Per cent. 72.2 97.8	
Total	11, 185, 458	100	207, 890, 881	100	

The proportion by weight of gold and silver production in these great periods has been:

Periods.	Gold.	Silver.
1493-1850	Per cent. 8.1 10	Per cent, 06.9 80

3. Detailed statements of the production of the precious metals, 1851-1885, by value.

PRODUCTION OF GOLD.

Periods and years.	United States.*	Anstral- asia.*	Russia.	Mexico, Colombia, Brazil,*	*Other countries.	Total.*	Estimate of Director U. S. mint.
Average of the years— 1851-1855	247, 752 215, 109 186, 093 212, 040	194, 124 229, 891 216, 617 205, 163	08, 907 74, 130 67, 194 83, 840	21, 511 19, 530 21, 243 19, 303	23, 924 24, 240 25, 079 28, 743	556, 308 552, 899 516, 826 544, 139	
1871–1875	166, 005 167, 400 196, 137	176, 145 187, 155 125, 684	93, 130 99, 744 114, 390	20, 200 20, 088 19, 809	29, 727 44, 640 44, 640	485, 207 468, 027 500, 660	\$118, 947, 900
1879 1879 18:0 1881	214, 272 162, 657 151, 218 145, 638	122, 063 120, 837 126, 101 127, 134	117, 459 118, 854 115, 606 107, 415	20, 088 19, 809 18, 893 18, 414	44, 640 44, 640 44, 640	518, 622 406, 797 456, 218 443, 241	119, 023, 000 106, 736, 000 106, 387, 000 108, 023, 000
1882 1883 1884 1885	136, 431 125, 941 120, 207 133, 501	122, 981 113, 575 118, 296	91, 23\$ 99, 882 91, 813	17, 577 17, 856 22, 320	46, 035 46, 035 46, 085	414, 207 403, 289 407, 761	98, 985, 00 94, 197, 00 95, 293, 00

<sup>\*</sup> Figures denote 1,000 marks,

# 3. Detailed statements of the production of the precious metals, &c.—Continued. PRODUCTION OF SILVER.

Periods and years.	Mexico.*	Peru, Bolivia, Chili.*	United States.*	Ger- many.*	*Other countries.	Total.*	Estimate of Director U. S. Mint.
verage of the years:							
1851-1855	84, 364	39, 567	1, 502	8, 862	26, 092	160, 387	
1856-1860		84, 653	1, 128	11, 195	86, 233	164, 709	
1861-1865		34, 589	31, 494	12, 366	85, 246	199, 803	
18 <b>6</b> 6–1870	93, 241	41, 184	53, 879	15, 953	85, 489	239, 696	
1871–1875	105, 315	65, 572	98, 840	25, 039	49, 883	344, 649	
n the year—	100, 010	00,012	50,010	20, 000	20,000	OFF! OF	
1876	94, 357	54, 950	146, 481	21, 945	47, 100	364, 833	i
1877	102, 708	56, 700	155, 034	23, 913	48, 600	386, <b>9</b> 55	\$81, 041, 0
	99, 820		168, 853	26, 038	46, 500		
1878		54, 250				395, 461	84, 238, 0
1879	106, 248	53, 200	149, 112	26, 981	45, 600	381, 141	83, 735, 0
1860	107, 954	53, 900	145, 220	28, 646	46, 200	381, 920	85, 321, 0
1881	110, 313	58, 550	158, 801	28, 609	45, 900	396, 673	102, 168, 0
1882	112, 914	59, 670	172, 291	<b>82, 892</b>	45, 900	423, 667	111, 822, 0
1883	110, 850	76, 500	166, 719	85, 259	45,000	434, 328	116, 923, 0
1884	117, 750	67, 500	176, 130	<b>37, 218</b>	45,000	443, 598	115, 148, 0

<sup>\*</sup> Figures denote 1,000 marks.

According to value, on the above figures, the total production of the precious metals for the periods from 1493–1850 and from 1851–1885 has been:

Periods.	Gold.		Sil <del>ver</del> .		
1493–1850 (in 858 years)		Per cent. 42. 7 57. 8	Marks. 29, 433, 000, 000. 8 9, 597, 000, 000. 9 39, 031, 000, 000. 7	Per cent. 75. 4 24. 6	

### The proportion between gold and silver production was, by value:

Periods.	Gold.	Silver.
1493–1850	Per cent. 31. 1 65. 0	Per cent. 68. 9 85. 0

If the value of the silver product were calculated, on the plan formerly in use, by considering the ratio to have been 15½-1 throughout (that is, considering the kilogram of silver to have been worth 180 marks throughout), the proportions would be:

Periods.	.Gold.	Silver.
1493–1850 (in 358 years)	Per cent. 33 63. 2	Per cent. 67 36.8

NOTES ON THE TABLES OF THE PRODUCTION OF THE PRECIOUS METALS.

In order to prevent frequent misunderstandings in regard to the character of the statistics of the precious metals, and an incorrect judgment of the preceding tables, it seems not superfluous to bring certain general remarks to the reader's attention. One ought neither to overestimate nor to underestimate these statistics—on the one hand, not to demand more from them than, with the best wishes of their authors, they can possibly give, and, on the other hand, not to throw overboard their results with exaggerated mistrust, because of their inevitable gaps and imperfections. The need of information and of tables in regard to the production and use of gold and silver, in regard to the movement of precious metals from country to country, in regard to the presumable supply of gold and silver in the world at large and in the different countries at different times, and in regard to other similar matters, has been constantly and strongly felt in commercial nations, from the discovery of America to the present time. It has led to more or less complete and important compilations. The traditional position of the precious metals, which have been assumed without question to form the universal measure of value and medium of exchange, and the wide-spread and deep-rooted opinion that it was above all the possession of abundant supplies of them that promoted and secured the welfare of a country, inevitably caused great importance to be attached and general attention to be given to these statistical statements, rough and arbitrary as they may in part have been. From the beginning there has been a steady tendency to exaggeration, which sometimes has verged on recklessness. We need only call attention to the erroneous statements, first corrected by Ranke, about the enormous sums of the precious metals which were supposed to have come to Europe from the New World during the very first decades after the discovery of America, and to the curious notions about the early product of the Saxon silver mines. The latter are worth mentioning, not only as a matter of curiosity, but also as a proof how far exaggeration can go. Magister Albinus, citing authentic records, and moreover the authority of Philip Melanchthon, "a trustworthy man, who had no liking whatsoever for things superficial," assures us in all earnestness that from 1474 till the year 1550, that is, in 76 years, there had been got from the mines of Schneeberg the sum of 12,335,520,483 heavy dollars (unciales), that is to say, more than the value of 123,355 tons of gold; and that, in addition, the princes had received in tithes \$2,055,920,080, and the same sum for seignorage; so that the total product of the silver mines of Schneeberg had been in that period equal to 164,473 tons of gold. The quantities so reported by Magister Albinus, reckoned on the metric system, are equivalent to 425,000,000 kilograms of silver. In fact, however, the annual product of the silver mines of Schneeberg, according to the specific accounts sent to us for the 76 years from 1474 to 1550, amounts to no more than 1,263 kilograms, whereas the above naïve exaggeration would indicate an average annual product of 5,500,000 kilograms, or about double the total annual product of silver in the whole world at the present time.

Although great exaggerations, such as those of former times, no longer occur, there is still much reason for mistrusting statements of gold and silver production, so long as trustworthy positive authority is not cited. As a rule, the tendency to overstatement is much more common and more tenacious than that to understatement, especially when new discoveries or unknown countries are spoken of. The presumption

of an understatement exists only where the statistics of the production of the precious metals come from the statements based on taxes, and where the producers or exporters have an immediate interest to omit a part of the product and thereby escape taxation. In countries where there is a high export tax on the precious metals the declared export, and the production calculated from it, may well be below the actual production. On the other hand, care must be taken not to make too great a statistical allowance for frauds of this kind, as seems to have been the case in the former estimates of the large production of the precious metals in Spanish America.

Every competent person who considers the statistics of the production of the precious metals in former times, must admit that a great degree of uncertainty remains even in statements brought together with great care and conscientiousness, and with repeated checks. Many figures rest only on rough estimates, with a possibility of wide errors, and others rest simply on guesses, based upon very little and very slight evidence; but unless one gives up entirely the task of getting complete and connected statistics of the precious metals, such estimates and guesses are indispensable. It is to be hoped that renewed investigations may succeed in finding further positive statistical material in the archives. Nothing is achieved by a merely negative criticism, which sets forth at great length that all statistics of the precious metals for former times are quite arbitrary and useless. On the other hand, criticism which shows, for important estimates, the greater probability of a high or of a low figure, is so much the more welcome.

Professor Lexis says with truth that in the statistics of the precious metals estimates in place of positive statements unfortunately must always play a prominent part, but that it is nevertheless possible by care

and method to prevent them from being simply guesses.

We have begun, in the present publication, with the estimates which we put forward eight years ago, with all reservations, of the production of the precious metals from 1493 to 1850; estimates which since have been reprinted in many other publications. This has been done by no means because a revision of these estimates appears superfluous, or because a change might not be possible for one or another statement or combination of statements. But for the purpose of the present work we believe that it was not only permissible, but even advisable, to repeat them without other change than resulted from the new method of reckoning the value of silver, since we still consider our former estimates as upon the whole accurate. Particular changes in matters of comparatively little note, even though they would bring us perhaps nearer to probable truth, were of no great importance for our present purpose. Moreover, up to the present time, we have seen but one careful detailed examination of our estimates for the earlier period. This is the article Contributions to the Statistics of the Precious Metals, by Professor Lexis (in the Jahrbücher für National-Oekonomie, Vol. XXXIV, page 361). We reprint here, for comparison with our statements, the results of the independent investigations of Professor Lexis, according to which the Mexican and South American production of the precious metals should be stated up to 1801 as follows:

Periods.	Gold.	Silver.
Annual average— 1493-1600	Kilograms. 830, 000 520, 000 1, 570, 000	Kilograme. 13, 100, 000 28, 000, 000 48, 500, 900

This yields a total gold product of 2,420,000 kilograms of gold, and 90,200,000 kilograms of silver, whereas our statements yield for the Mexican and South American production till the close of the eighteenth century 2,490,000 kilograms gold, and 101,400,000 kilograms silver. Our higher estimate of the American silver product arose through the fact that we took for the Peruvian mines a larger amount than Lexis considered admissible.

It is to be hoped that the Spanish and South American archives will in future give further positive data, or at least information, in regard to the earlier American production. It will then be time to undertake a thorough revision of our tables, and to replace them with new ones. For the present, and for the purpose of this publication, it seems quite useless, in view of the inevitable uncertainty of all estimates, to make changes which are comparatively unimportant in relation to the totals.

For the production of the precious metals from 1851 till 1875 we have also retained our previous figures, since there seems to be no occasion for any essential change. But it may be mentioned that our estimates, as has been already stated in our earlier larger work, stand higher almost throughout than those which, based on tables of Sir Hector Hay, are usually given in English periodicals. For the sake of completeness we give a summary comparison of both estimates for the whole period from 1851 to 1875.

TABLE C.

	G	old.	Silver.	
Producing countries.	Our estimate.	Hay's estimate.	Our estimate.	Hay's estimate.
United States	Kilograms. 1, 840, 500 1, 812, 000 694, 080	Küograms. 1, 775, 600 1, 679, 700 609, 100	Kilograms. 5, 271, 500	Kilograms. 6, 118, 000 853, 000
Mexico and South America Other countries	231, 935 177, 850	153, 400 91, 500	18, 570, 500 6, 763, 745	16, 230, 000 5, 675, 000
Total	4, 756, 365	4, 309, 300	81, 003, 535	28, 376, 000

The difference is to be explained principally by the fact that Sir Hector Hay puts too low an estimate on the production in South America, and leaves almost entirely out of consideration the production in countries not specifically named, which latter, all told, forms no unimportant amount. The two estimates, while differing in other respects, yet agree in that both make the proportion of the production of gold to that of silver about the same.

Variations as considerable as those that appear in the different compliations in regard to the production of the precious metals before 1875, can no longer appear for the subsequent period. Since that time, with the depreciation of silver and the uncertainty as to future standards of value, the practical interest in the statistics of the precious metals has become immensely greater.

Variations in the different estimates inevitably continue. But as a rule they are easily explained, and balance each other on the average of several years. Very meritorious work has been done since 1879 on the recent statistics of the precious metals by the Directors of the Mint of the United States. Messrs. Horatio U. Burchard and James P. Kimball have published in their annual reports a mass of information, not only in regard to their own country, but also, on the basis of consular reports, in regard to other countries.

We turn now to the statistics of the production of the precious metals since the year 1876 in the individual countries of most importance, beginning with that great country which, in this respect, has in recent years undoubtedly taken the first place, the United States. attention is given to this branch of statistics in that country, especially in the annual reports upon the Statistics of the Production of the Precious Metals in the United States, published since 1881, under supervision of the Directors of the Mint. For those years for which such reports exist, statistical statements differing from them may of course be set aside. That other statements still exist is explained by the fact that immediately at the beginning of each year Mr. Valentine, the superintendent of the great express firm of Wells, Fargo & Co., prepares a preliminary statement of the production of the precious metals in the west of the United States, which is widely published, and accepted up to the appearance of the exact official statements. It seems necessary to take note of the manner in which the gold and silver product of the Union divides itself from year to year among the different States and Territories, for extraordinary changes and shiftings take place. the technical skill, and the recklessness of the persons engaged in mining and smelting, are such that productive mines are often entirely exhausted within a short space of time, and the population employed in them turns to other, often distant, mining districts.

States and Terri-	18	81.	18	82.	18	83.	18	84.
tories.	Gold.	Silver.	Gold.	Silver.	Gold.	Silver.	Gold.	Silver.
	Dollars.		Dollars.	Dollars.		Dollars.	Dollars.	Dollars.
Alaeka	15,000		150,000					
Arizona	1, <b>06</b> 0, 000	7, 300, 000	1, 065, 000	7, 500, 000			930, 000	4, 500, 00
	18, 200, 000		16, 800, 000		14, 120, 000		13, COO, 000	3, 000, 00
colorado		17, 160, 000	8, 360, 000	16, 500, 000	4, 100, 000	17, 370, 000	4, 250, 000	16,000,00
Dakota	4,000,000	70,000	8, 300, 000	175, 000	3, 200, 000	150, 000	3, 300, 000	150, 60
deorgia	125, 000		250, 000		199, 000	1,000		
daho	1, 700, 000	1, 800, 000						
Montana								
vevada				6, 750, 000		5, 430, 000	3, 500, 000	5, 600, 00
New Mexico	185, 000				280,000			
North Carolina	115,000		190,000					
Oregon	1, 100, 000							
South Carolina	85,000				56, 500		57,000	
Jtah		6, 400, 000					,	
Virginia	10,000		15, 000				2, 000	0, 000, 00
Vashington	120,000		120,000		<b>80,000</b>			
			5 000		4 000	••••••	6, 000	
Wyoming	3, 000		5, 000	• • • • • • • • • • • • • • • • • • • •	2,000	••••••	0, 000	
other States and Territories	5, 000			• • • • • • • • •	17, 500	• • • • • • • • • • • • • • • • • • • •	76, 000	5, 00
Total	34, 700, 000	43, 000, 000	<b>32</b> , 500, 000	46, 800, 000	30, 000, 000	46, 200, 000	30, 800, 000	48 800 00

Reduced to metric weights, the production of the precious metals of the United States, as given in the statistical abstract for 1885, was as follows:

Periods and years.	Gold.	Silver.
Average of the years— 1851-'55	Kilograms. 88, 500	Kilograms.
1856–'60	76, 800	1, 900 241, 800
1871–'80		870, 600
In the year— . 1881	52, 000	1, 032, 000
1882	48, 800 45, 000	1, 123, 200 1, 108, 800
1884	46, 200	1, 171, 200

For the year 1885 the gold product has been ascertained to be \$31,800,000 = 47,850 kilograms, and the silver product to be \$51,600,000 = 1,241,000 kilograms.

It would obviously carry us too far to go further into the special conditions of the production of the precious metals in the United States. In regard to them reference may be made to the already mentioned comprehensive reports of the Directors of the Mint. But, in view of the extraordinary and decisive importance of this production, we can not refrain from giving extracts from general opinions put forth recently by certain careful observers. Professor Lexis, in his essay on "The Question of Standards and the Conditions of the Production of the Precious Metals" (Schmoller's Jahrbücher, X, 1, 1886), says:

If one considers as a whole the conditions under which gold is produced in the United States, one must admit that the discovery of alluvial deposits of the extent and richness of those formerly discovered in California is no longer to be expected. Goldwashing will contribute less and less to the yearly product, even though from time to time new deposits may be found which will bring about a retardation of the rate of decrease. But this alluvial gold already forms but a comparatively small part of the total product. Much larger is the contribution which comes from the huge gravel deposits of older times, and the product from this source can undoubtedly be maintained at its present, height for many decades, especially when the external difficulties are removed which have at present arisen in California from reckless hydraulic mining. The most permanent supply of gold, however, is to be expected from quartz mining; and at the same time all the indications point to a gradual and considerable rise in the product from this source. Already it is possible to use ores of low grade which formerly were not considered worth treating. It is endeavored more particu, larly by better metallurgy to get rid of the loss which so far has arisen through thfact that the gold contained in iron pyrites, the so-called rusty gold, can not be see cured. It may therefore be assumed that the production of gold in the United Statehas at the present time reached a point at which it will maintain itself on the avers age for many years, and that the annual yield during the next generation is hardlylikely to be less than 110, 220, 000 marks.

In regard to the production of silver in the United States, it is said in the same essay.

The official reports make it evident that the richness of the Pacific States and Territories in silver is practically inexhaustible; that it depends only on the development of the railroad system, on the progress of technical art, and on the application of labor and capital, how far the annual product shall be increased. The effect of the low price of silver is chiefly this, that many low-grade ores are not now treated, but are piled up in the hope of the discovery of cheaper methods of treating them or of higherprices of silver. New deposits are constantly discovered, which yield a profit even at the present price of silver and more than fill out the gaps in other places. The American reports note especially the increasing importance which California has gained as a producer of silver, through the discoveries in San Bernardino county.

Interest will also be taken in an essay by Dr. E. Reyer, which appeared in the January number for 1886 of the Zeitschrift für Berg-, Hütten- und Salinen-Wesen im Preussischen Staate, under the title of "Gold Mining in California," in which the economic side of the matter is considered. The author has personally studied the situation in California. We quote his concluding sentences:

If we compare the total production of gold in California with the number of workmen, we get interesting results. In the beginning of the decade 1850-'60, from 60,000 to 100,000 men were employed in the mines and washings of California. One man produced annually no more than between 2,000 and 4,000 marks, which meant, at daily wages between 16 to 32 marks, a large deficit. In the middle of the decade, from 1860-'70, 43,000 men were employed (of whom 7,000 were employed in quartz mining), and all together produced only 100,000,000 marks of gold. Quartz mining yielded at that time nearly 4,000 marks per year per man, the washings correspondingly less, with daily wages of from 10 to 12 marks. Again there was an industrial loss.

These facts correspond with the statements as to dividends, from which it appears that of several hundred quartz mines hardly a dozen are profitable. In the washings matters are no better; even though the dividends in particular cases are large, they

by no means cover the deficit of all the unprofitable undertakings. In fact, the production of gold here, as in Australia, has always yielded a net loss. This may be explained as follows. A few dozen mines produce the great mass of gold. They make large profits and determine the price. Their success attracts capital without end to similar undertakings; these are given up after a while, and the money is returned to other really productive branches of industry. But the temptation from the fortunate gold producers continues, and causes new capital constantly to rush to its destruction—the same phenomenon that is seen in games of chance. A few win a great deal; hundreds lose all they have. The business, on the whole, is a losing one. Everybody knows it, yet every one stakes his venture in the hope of winning the great prize. For that reason the production of gold throughout the world has always been, on the whole, unprofitable, and gold has been an article which was sold below cost price. This state of things will continue so long as the production of gold is not regulated by the state, or entirely carried on by the state, at least in the most important producing countries. The total production of gold in California maintained itself in the years after 1850, as a rule, at 200,000,000 marks per year. In the beginning of the sixties it fell rapidly to 100,000,000 marks, and in recent times to less than 50,000,000 marks. In the first years the gold was gained almost entirely out of ordinary washings. In the beginning of the fifties a production from quartz appeared of from 40,000,000 to 60,000,000 marks. Later, the great mass of gold was obtained by hydraulic mining. The production of the seventies has been obtained about half from washings and half from mines.

The decreasing gold production of California was supplemented in the sixties by that of other American States (Comstock, etc.). In recent times these sources also are being rapidly exhausted. Here, as in Australia, the production of gold is marked by a lack of permanence. This has always been the case, and is explained by the easy exhaustion of the alluvial deposits, and the small depth at which veins are profitable. In other countries, the same phenomenon has shown itself in previous centuries, but under the conditions of earlier times, when methods were more primitive, there was a longer period before exhaustion set in. In this respect gold differs

essentially from the less exhaustible silver.

It is apparent from these quotations how much the views of attentive observers differ as to the continuance of an abundant supply of gold, and how difficult it is to secure a correct opinion. The final result must turn on the discovery of new and rich gold fields, and on the progress

of mining skill.

In regard to the production of gold in Australasia, by which name we designate, following the example of the English, Australia itself (comprising the colonies of New South Wales, Victoria, Queensland, and West Australia), Tasmania, and New Zealand, different statements vary very much for the different years. Not unfrequently the gold production, as stated by the mining authorities for various years, is later admitted to be incorrect, and other figures are substituted. If, however, these corrections are taken into account and the averages of several years are taken, the variations in the main balance each other.

The total declared export of gold from Australia, deducting the inter-

colonial export, was as follows:

Year.	Amo	ant.	Year.	À <b>m</b> o	ount.
1876 1877 1878 1879	£5, 703, 374 7, 295, 868 5, 567, 084 2, 403, 212	Kilograms. 42, 400 53, 400 40, 800 17, 600	1880 1881 1882 1883	£4, 170, 749 6, 461, 388 5, 087, 625 5, 180, 741	Kilograms. 30, 509 47, 309 87, 309 37, 909

The total for the eight years from 1876 to 1883 was £41,960,000, equal to 307,200 kilograms, an average of 38,400 kilograms per year. To this amount some addition must be made on account of the gold retained for local use, before we could estimate the total gold product of the Australian colonies. In the years from 1856 to 1860 the corresponding

gold export from Australia was on the average £11,424,000, equal to

about 83,000 kilograms.

The preceding data we have repeated in order to show in what manner the statements, in the first edition, of the gold product in Australia were made up. We are now, however, in a position to give a full statement of this production since 1851, that is, from the beginning of the production of gold up to 1884, inclusive. This statement is entitled to take the place of previous calculations and estimates. In the sixteenth annual report, for the year 1885, of the British master of the mint, there is an Appendix E, entitled "Estimated production of gold and silver in Australia and New Zealand from the earliest records obtainable to the year 1884, inclusive. Tabulated from returns kindly furnished by the Government of each colony." This statement was prepared by the master of the mint at Melbourne, Mr. George Anderson, and was sent with the letter of introduction to the master of the mint at London, Mr. C. W. Freemantle, on the 9th of March, 1885. In the original table there is a column for the colony of West Australia, but no figures are given in that column, it being remarked that the production there is nominal. For this reason we have omitted the column. According to this statement the production was as follows:

Gold production in Australasia. . .

Year.	Now Bundli Wales.	New Zea- land.	Queens-	South Austra- lia.	Tasma- nia.	Victoria.	Tota	ı.
	Ounces.	Ounor.	Ounose.	Ounces.	Ounces.		Ounces.	Kiloe.
961	144, 120					IQ.	^57, 019	10, 17
52	818, 751	******				捣	15, 286	88, 53
58	548, 052					10	72, 150	99, 85
54	287, 910					陳	56, 398	70, 03
\$55	171, 867					詢	10.00	85, 26
66	184, 600		*******	*******		慢	38, 344	92, 82
57	175, 949	10, 437					16, 599	96, 00
58	286, 798	13, 584				11	76, 568	82, 58
59	820, 868	7, 338				19.	35, 402	76, 56
60	384, 053	4, 538			********	19	[2,660]	74, 48
61	463, 685	194, 031	(71 10)			3	14, 889	78, 25
63	640, 622	410, 962	(6 10)			1	31, 683	80, 73
83	466, 111	628, 459	(1( )0)	********			99, 380	82, 87
64	340, 267	480, 171	(1 20)			17	12, 885	72, 49
165	320, 316	574, 574	(1( 10)			1 <u>4</u>	26, 444 30, 404	74, 21
68	290, 014	785, 876	(1: 10)		348	16	22, 686 [], 600	77, 62
67	271, 885	486, 905	(11 10)		1, 363	-	28, 748	74, 45 77, 70
968	255, 662	637, 474	(1: 10)		692	.8 i6	80, 665	
69	251, 49L	614, 281 644, 880	(1: 10)		137 964	ii.	/1, 006	73, 00 84, 74
570	240, 858		(11 10) (11 10)		6,006	13	18, 585	74, 37
971	323, 609 425, 129	730, 029		9 404	6,969	7	91, 389	68, 17
72	361, 784	445, 879 605, 897	(11 10) (21 10)	2, 494 98	4, 061	17	12, 277	63, 92
774	270, #28	876, 888	(21 10)	8, 851	4, 650	13	57, 656	55, 81
475	230, 883	855, 822	(21 )0)	18, 742	8,010	7	71, 874	53, 85
76	167, 412	822, 010	(2: 10)	9, 857	11, 107	lò	34, 152	49, 15
77	124, 111	871, 685	(21 6)	11,811	5, 777	1 28	79, 663	45, 04
78	119, 065	310, 486	3 17	10,745	25, 249	iÔ	14, 482	43, 74
79	109, 650	287, 464	21 6	14, 250	60, 155	ÎŤ	19, 022	43, 80
180	118, 600	805, 246	267, 136	18, 245	52, 595	ii	85, 945	45, 21
831	149, 627	270, 561	270, 945	16, 975	56, 698	'8	96, 179	45, 56
182	140, 409	251, 204	224, 893	15, 658	49, 122	10	(5, 968	44, 07
163	123, 606	248, 374	212, 783	16, 938	40, 577	iš	27, 731	40,70
484	107, 199	229, 946	307, 804	21, 454	42, 339	iš	87, 980	42, 40
Total	9, 596, 642	10, 552, 279	4, 529, 280	154, 628	978, 419	52, 023, 985	78, 235, 227	2, 230, 48

Professor Lexis estimates the yield of gold in Australia (apart from the production in North Australia) as follows:

Yes.	Ounces.	Marks.
1892	1, 566, 757	125, 341, 000
1892 188 <del>  </del>	1, 44 <b>6</b> , 930 1, 507, 283	115, 754, 000 ; 120, 563, 000

#### He adds:

From 500,000 to 550,000 ounces are now produced from alluvial deposits, and between 950,000 and 1,000,000 ounces from quartz mines. In the first class the official statistics place hydraulic and other mines in the older deposits, which are likely to become more numerous in the future and to yield for a period without visible limit a considerable amount of gold. In the same way quartz mining is capable of increasing development, as the settlement of the country progresses and the normal growth of population and the increase of railroads takes place. Metallurgic improvements will, moreover, render it possible to secure from the ores a considerably higher per cent. of gold than was formerly possible. It is, therefore, not optimistic if an annual production of from 100,000,000 to 110,000,000 marks is expected from the Australian mines.

For the year 1885 complete reports of the production of gold in Australasia are not yet at hand. In Victoria the production, according to official reports, was 735,218 ounces, against 778,617 ounces in the year 1884; but this decrease may be covered by an increased yield in Queensland. Here, for instance, the gold field of Charters Towers yielded in 1885 134,650 ounces, as against 106,286 ounces in 1884, and, as the other reports from this colony are also favorable, we may estimate the gold production in Queensland for 1885 at about 340,000 ounces.

New gold fields have been recently discovered in West Australia, at Kimberley, in the northwestern part of the colony, which are said to be rich in alluvial gold. For the present they are not easily accessible, and up to date (August, 1886) no considerable yield from them has been secured.

There has been practically no production of silver in Australia up to the present. What silver has been obtained there has been derived by separation from gold. Mr. Anderson, in the report mentioned above, has given separate figures for the production of silver since 1863 in New South Wales, Victoria, and New Zealand, of which the totals are as follows:

	Ounces.
1863–1870	81.159
1871–1875	
1876–1880	
1881	
1682	
1883	
1884	

On the average of the four years, 1881–1884, this production of silver has been only 105,852 ounces per year, equal to about 3,000 kilograms fine. In the years 1883 and 1884 there were exported from Queensland silver and lead of the value of £101,519. The mining of silver in Queensland, as well as in New South Wales, seems to have begun on a larger scale only in 1885–1886, at Silver Fields, in North Queensland, at Sunny Corners, Silverton, in the Barrier Ranges, etc. Whether the large expectations entertained in regard to these new silver mines will be realized, remains to be seen.

It must, in conclusion, be said that the Chinese employed in the alluvial mines, especially in Queensland, carry to China a large part of

the gold gained by them without declaring it. This was formerly the case in California also. How large this exportation of gold by the Chinese may be, is difficult to estimate; but it is certain that it does not appear in the official statistics, and that the sum total can not be inconsiderable.

In regard to the production of gold in Russia, it is not to be expected that exact statements, corresponding with each other, should exist, even if we look aside from the amounts fraudulently withheld from publication. The gold producers in Russia have always been obliged to turn over the gold produced by them to the authorities at fixed prices. For some time these purchases have been met by bills drawn at six months date on the Imperial mint at St. Petersburg. On the whole, there is, in essentials, an agreement between the different official statements of the yield of gold in Russia. But if the figures for individual years are considered, more or less considerable discrepancies appear. All statements are said to rest on the official data. The differences may in part be explained by the fact that some statements refer to gold fine, that others refer to standard gold (11 fine), while still others refer to the so-called "Schlich-gold," or "Legatur" gold, such as is turned in by the producers.

Below we give, first, the statements in regard to the earlier developments of Russian gold production, which J. Von Bock published in his statement of Russian production for the seven quinquennial periods between 1815 and 1849. Then, for the individual years from 1850 to 1871, we give the figures of Professor Lexis, in his essay on the precious metals in the foreign trade of Russia, printed in the Tübinger Zeitschrift für die Gesammte Staatswissenschaft, 1878. Lastly, for the years from 1872 to 1875, we give the official statements as sent to us direct from St. Peters-

burg:

Years.		Pounds.	
Average of—			
18i <b>5-1819</b>	16	82	
1820-1824.	82	21	
1825-1829	266	[ 8	
1×30-1834	378	26	
1835-1839.	443	12	
1840–1844		87	
1845–1849	1, 589	8	
Years:			
1850	1,454		
1851	1,474		
1852	1. 367		
1853	1, 463		
1854	1, 596		
	1, 649		
	1, 655		
400			
1857	1,784		
1858	1,688		
1859	1,542		
1800	1,491		
1861	1, 456		
1862	1, 461		
1863	1, 460		
1864	1, 898		
1865	1, 576		
1866	1.659		
1867	1, 650		
1868	1,711		
1869	2,007		
	2, 157		
1084	2, 400	•••••••	
4404	2, 100 2, 308	9	
		39	
1873	2, 024		
1874	2,028	5	
1875	1, 996	7	

Based on these, and on certain other statements, was the following estimate, already published by us in earlier writings, of the gold production of Russia from 1801 to 1875:

Years.	Kilograma.	Marks.
1801–1810	165	460, 00
1811-1820 1821-1830 1831-1840	I R 275 (	879, 00 9, 416, 00
1841–1850	<b>22.515</b>	19, 669, 00 62, 817, 00 68, 997, 00
1856-1860 1861-1866		74, 130, 00 67, 197, 00
1 <b>955</b> –1870. 1871–1875.	80.050 {	83, 889, 00 93, 180, 00

There seems to be no reasons for attempting to change these estimates; but it should be said that the production of gold in Russia was probably considerably larger than indicated by the official statements, especially in earlier times, when there was a not inconsiderable tax on the gold produced on private account.

Our estimate of the Russian gold production from 1876 to 1885 has already been given above in our general table. We add at this point only such other official statements as have come to hand. In the Russian Review, 1883, the yield of gold in Russia for the years 1876 to 1881 is given as follows by Striedter:

Year.	Pud.	Pounds.	Solotník.	Kilograms.
1876		8 6 4 29 29	48 57 83 53 91	33, 649 40, 986 42, 132 48, 109 43, 272

In the Statistical and other Scientific Contributions from Russia, fifteenth year, 1882, K. Skalkowsky mentions that at the close of 1879 the number of private gold mines in eastern Siberia was 1,522, in western Siberia 291, in the Ural 1,233. The yield of chemically pure gold was 2,514 pud, 61 solotrik, 38 doli. According to this statement, and a statement for the same sources giving the yield of Schlich-gold as 2,631 pud 30 pounds, the fineness of the latter gold may be assumed at 0.955.

In the annual reports of the director of the mint of the United States the gold production of Russia is given as follows, official data being cited as authority here also:

Year.	Dollars.	Kilograms,
1876	22, 862, 809 27, 240, 081 28, 000, 624 28, 650, 449 28, 759, 860 24, 431, 048 23, 867, 935 (*2, 009)	33, 650 41, 004 42, 100 43, 100 43, 300 86, 800 35, 912

. † Pounds:

\* Pud.

Lastly, Mr. Ottomar Haupt, in his Monetary History of our Times, Paris, 1836, has given the following statement, again based on official statements made to him from St. Petersburg. Quantities indicate gold fine:

	Year.	Pud, fine.	Rubles.
1968.		1, 695	22, 320, 00
1869	4	1, 542	21, 056, 00
			26, 711, 00
			29, 872, 00
- A	•••••••		29, 083, 00
		·	28, 546, 00
1874		1,799	24, 562, 00
1875		1,889	25, 792, 00
1876		2,602	35, 538, 00
1877		2, 249	30, 716, 00
1878		2, 329	81, 799, 00
	•••••••••••		31, 674, 00
			32, 163, 00
4 AA4			14, 874, 00
	•••••••••••		16, 919, 00
4000	••••••••••••		24, 523, 00
	••••••••••••		32, 000, 00
	• • • • • • • • • • • • • • • • • • • •		81, 700, 00

In this last table there are remarkable sudden variations of great amount, in successive years, as for instance in the years 1881 and 1882. Looking at the previous five years, we can hardly believe that such extraordinary changes took place in the actual production of gold, and the variations in the figures are probably to be explained by the fact that the delivery and recording of quantities of gold were occasionally delayed, and carried on to a later year. In the other statement of Russian gold production these variations do not appear. Possibly the discrepancies may rest on the circumstance that some statements are for calendar years, others for fiscal years. Occasionally we find figures that are quite inexplicable. Thus it is said in an essay by Mr. Ivanow, published in the Journal de St. Petersburg and reprinted in the Journal des Economistes for September, 1883, at page 414: "The production of gold in Russia in the year 1882 gives to our country the first place after the United States, putting it before Australia. We extracted in 1882 57,000,000 rubles gold, while Australia extracted no more than 50,000,000." The official figures communicated to Mr. Haupt from St. Petersburg give the gold production for 1881 at 14,374,000 rubles, only a quarter of this estimate in the Journal de St. Petersburg. The sum of 57,000,000 rubles gold is equivalent to 66,000 kilograms fine, which is double the quantity given in our general table as the presumable actual production of gold in Russia for 1882. Notwithstanding incomprehensible exaggerations of this kind, the above-cited essay by Mr. Ivanow has many sound and noteworthy remarks, especially in what he says of the insufficient plant, the primitive machinery, and the reckless methods, of the smaller mining companies of Siberia, and also in what he says about the widespread frauds in the delivery of the gold. Under a better system Siberia would probably yield for a long time in the future a great deal of gold, without there being any danger of exhaustion of the gold fields. But, as already has been noted, the variations in the different statistical statements are not of decisive importance if periods of several years be considered.

In regard to the character and future of the Russian production of gold, opinions vary greatly. As has been pointed out, it is carried on with poor technical means, little capital is employed on a large scale, and the condition of the workmen is abominable. Criminals and vaga-

bonds form the bulk of the men employed in the washings, and theft and embezzlement constantly occur. If these evils were remedied, the production of gold in Russia might increase considerably. Striedter, in the Russian Review for 1883, Nos. 8 and 9, states that by far the largest part of the Russian production is carried on by washing in sand deposits, and that comparatively little true mining is carried on. The increase of the Russian gold production is to be explained by the fact that new fields are constantly hunted up, since the yield of gold from the sand and gravel deposits, originally high, diminishes everywhere, except in the district of Olekminsk. It has been necessary to push constantly farther eastward. During the decade from 1851 to 1860 eastern Siberia yielded two-thirds of the total Russian product of gold, and since 1871 this proportion has still further risen. In recent years attention has been directed to new fields in the Amur district; but there the limit of new discoveries would be reached. Striedter concludes that the increase of gold production which arose from the sand deposits of Russia will before long have reached its highest point. On the other hand, it has been said that although a continuous increase in the Russian gold production is not to be expected, on the other hand increasing knowledge of the geological conditions of Siberia and the Amur country, and improvement of industrial conditions, especially in the means of communication and in technical apparatus, may lead to a profitable production of gold for many years in the future, the more so if production in the future is carried on more by true mining.

An English traveler, Mr. H. Lansdell, in his Journey through Siberia,

1882, says:

The yield of gold in some valleys in Amur is almost fabulous. In Albazin, which belongs to the upper Amur Company, I was told that in the ten years from 1869 to 1878 there had been produced 150 pud gold per year, which, at the rate of £2,000 per pud, gives a total sum of £3,000,000. On the river Vitim between 300 and 400 pud were produced in the summer of 1878. In eastern Siberia, in the years from 1833 to 1870, the exportation of gold was about 30,000 pud, whose production employed in some years more than 30,000 workmen.

Since 1881 Russian fugitives have opened a new and rich yield of gold in the Chinese Amur country, in the neighborhood of the station Amasarsk, on the river Sheltuga. In the first year 500 men were at work here; in the second year there were already 3,000. The year 1883, when 7,000 persons were at work in the new gold fields, was the culminating time; since then the number has gone down again to 3,000. The gold fields are about 7 werst square. The sand containing the gold is very carelessly washed, and from 100 pud sand from 2 to 10 solotnik gold are obtained. Most of the men net nothing, since all articles of food are extraordinarily dear. In former times the Crown bought gold through its officers, at the rate of 3 rubles 40 copecs per solotnik. But this was soon discontinued, as the officers made profitable contracts with the Chinese and turned over very little gold to the Crown. The recent increase in the export of gold from Chinese ports (3,186,461 Shanghai taels in 1885) is probably connected with the production of gold in the Amur country.

Professor Lexis, who has for some time given special attention to the Russian production of the precious metals, is of the opinion (see Schmoller's Jahrb., X, 1, 1886) that "Russia for a number of decades will continue to add on the average 60,000,000 to 70,000,000 marks annually

to the gold product of the world."

In regard to the production of silver in Russia, for which separate statistics are generally given in connection with the statistics of gold, we have inserted no figures, since the production of that metal in Russia, as compared with the total production, has always been quite insig

nificant. In the years from 1876 till 1884 the annual average production

of silver in Russia was less than 12,000 kilograms.

As regards Mexico, the estimates of the production of the precious metals have been based from the outset on the coinage of that country. But it has always been known that the actual production must have been considerably in excess of the sums indicated in this way, since there has been a secret export of uncoined precious metals and a consumption within Mexico in the arts. From time to time exportation in bars has been permitted by law, of which the amount has then been recorded. The coinage has been in the fiscal years ending June 30, as follows:

Years ending June 30—	Sil	Silver.		Gold.	
rerage of—	Pesos.	Kilograms,	Pesos.	Kilograms,	
1868–1875	17, 552, 000	428, 800	850, 700	1, 25	
1876		475, 300	809, 402	1. 19	
1877		523, 200	695, 750	. ,	
1878.		539, 600	691, 998	1, 02	
1879		541, 500	658, 20 <b>6</b>	97	
1880		580, 800	521, 826	77	
1861		601, 500	492, 068	72	
1882		614, 400	452, 590	67	
1883	04 000 000	588, 400	407, 600	60	
1884		620,000	328, 698	48	
1885		631, 400	423, 000	62	

According to the official statements, based on the mint records, the total coinage in Mexican mints during the three hundred and forty-nine years from 1537 till the close of June, 1885, amounted to:

	Pesos.	Kilograms, fine.
SilverGold		75, 506, 200 177, 484

The actual production of the precious metals in Mexico is, as already remarked, much larger than this amount. In these statistics no account is taken of the quantities of gold and silver which are exported in bars without being declared at the custom-houses or elsewhere. Such an export has more particularly taken place from the ports on the western coast. The export duties, 5 per cent. for silver and one-half per cent. for gold, were not removed until November 1, 1882. In recent times a considerable export, not declared, is said to take place over the northern boundary. An addition must be made for all this export not reckoned in the official statistics, and moreover a greater addition for gold than for silver. A difficulty also arises in inserting the Mexican production in general tables, from the fact that in Mexico the coinage and the export are given for fiscal years instead of calendar years. This may serve to explain many divergencies in different years. In a report of the Mexican ministry of trade of the 18th of August, 1880, there is given, by way of exception, a statement of the production and coinage for the calendar year 1875, as follows:

	Ascertained production.		Coinage.		
Gold	Pesos.	Kilograms.	Pesos,	Kilograms.	
	989, 161	1, 464	589, 161	872	
	25, 167, 763	615, 300	23, 667, 763	578, 700	

For the fiscal year 1884 the ascertained production (coinage and export of bars) is given at 31,548,478 person silver and 1,183,137 person gold.

The declared export of precious metals of domestic production from

Mexico was as follows:

	1881-1882.	1882-1883.	1883–1884.
Gold in bars	Pecos. 420, 181 760, 688	Pesos. 548, 039 831, 708	Pesse. 696, 653 200, 816
Total	1, 180, 814	879, 747	897, 469
Silver in bars Silver in coins	8, 040, 079 16, 783, 817	4, 778, 928 22, 969, 584	5, 311, <b>8</b> 10 25, <b>999</b> , 876
Total	19, 823, 896	27, 743, 512	31, 811, 186

We cannot add to the silver production of different countries the silver ores exported from them, since, as has already been stated, the quantities of gold or silver obtained in this manner are reckoned as part of the production of those countries where the ores are treated.

If the production of the precious metals in Mexico has maintained itself, and even increased somewhat, this is to be ascribed, apart from the effect of new railroads and of the greater cheapness of quicksilver, chiefly to the greater energy with which mining has been taken up. In a German consular report of 1882 it is said:

In the northern border States mining for the precious metals in the rich Mexican Cordilleras attracts numerous speculators, and an immigration of labor and capital (and of adventurers, too) is taking place on a scale that reminds one of the history of California and Nevada. In Sonora almost all the profitable mines have gone into the hands of American companies. This movement is now spreading to the States of Sinaloa, Chihuahua, and Durango. Every mine owner is on the watch for an American company which is to buy him out.

In the report of the German consul in Oaxaca for the year 1885 it is said:

Several large undertakings in different mining districts have brought about, for the year 1884, an increase in the production of silver of about 20 per cent. as compared with previous years. The governments here have endeavored to attract foreign capital by special privileges to this industry. These endeavors, however, have had little success in face of the present unfavorable state of the money market. By far the greater part of the numerous and productive gold and silver mines are abandoned, partly from a lack of enterprise and of the necessary machinery, partly because of the incomplete and primitive methods, which prevent a profitable handling of poorer ores.

The yearly reports of the Director of the Mint at Washington estimate the production of the precious metals in Mexico as follows:

Years.	Silver.	Gold.
1878.	Kilograme. 650, 000	Kilograms.
1879	005, <b>469</b> 665, 918	1, 488 1, <b>29</b> 9
1882. 1888.	703, 508 711, 847	1, 409 1, 439
1884	655, 868	1, 780

Our estimate of the Mexican production of the precious metals is the result of a revision of earlier statements, with use of further material,

and it varies considerably from our former statements for individual years. Our estimates since 1878 are higher than those of Burchard.

The depreciation of silver, which is most felt in Mexico, since silver is Mexico's chief article of export, has not as yet brought about, on the whole, any diminution in the production of silver. The great improvements in transportation and in methods of production in recent times have made production more easy. The fall in the price of silver is said sometimes to cause even an increase of production, since the mine holders endeavor to make up for the lower price by producing larger quantities.

We print below statements in regard to the production of the precious metals in the United States of Colombia (formerly called New Granada). We are enabled to make these statements through the kindness of the Secretary of State for Foreign Affairs, Mr. Vincente Restrepo, who has given this subject his attention for twenty-eight years, and has recently published a comprehensive study on it, entitled A Study on the Gold and Silver Mines of Colombia, printed in the Annals of Public Instruction of the United States of Colombia, No. 39, March, 1884.

Restrepo estimates the total production of the precious metals in Colombia since its conquest, 1537, up to the year 1882, as follows:

Years-	Pesos.	Of which gold, kilograms.
1537–1600	50, 000, 000 170, 000, 000 194, 000, 000 216, 000, 000	69, 600 236, 600 270, 000 300, 600
1587–1882	630, 000, 000	876, 800

Of this total there were, approximately, 602,000,000 pesos gold and 28,000,000 pesos silver. This production was divided among the different provinces as follows:

Province.	Pesos.	Province.	Pesos.
Antioquia	242, 000, 000 74, 000, 000	Santander	13, 000, 000 6, 000, 000 2, 500, 000 500, 000

Mr. Restrepo believes that the estimate of the production of gold in Colombia, as given in our volume on the Production of the Precious Metals, Gotha, 1879, was too high; on the other hand, he considers Humboldt's estimate (up to 1803) too low.

Since 1851 the production of the precious metals has averaged as follows per year:

Years.	Pesos.	Kilograms, gold (about).
1851-1860 1860-1863 1862-1869 1809-1881	2, 532, 555 2, 101, 000 2, 615, 000 8, 198, 000 4, 816, 000	3, 500 2, 900 3, 600 4, 500 6, 000

The customs statements of the exportation of gold and silver from the ports of Colombia are arranged, it is true, in seven separate columns, but the individual statements for different years run into each other so much and make it so impossible to see any system in the classification, that we have not been able to make use of it for statistical purposes. We are therefore compelled to limit ourselves to a presentation of the total declared export of the precious metals. From this it is possible, however, to reach conclusions in regard to the changes in export and production which have taken place from year to year.

		•			
Declared	export of	precious	meials.	from	Colombia.

Fiscal years.	Pesos.	Fiscal years.	Pesos.
1869-1870 1870-1871 1871-1872 1872-1873 1873-1874 1874-1875 1875-1876 1876-1877 1877-1878	1, 896, 674 1, 281, 948 2, 643, 708 3, 095, 676 3, 160, 185 3, 295, 098 1, 796, 401 3, 688, 246		2, 874, 913 8, 351, 786 8, 735, 476 3, 935, 236 2, 197, 064 3, 080, 256

In a letter of 29th of April, 1886, which accompanies these figures, attention is called to the fact that they are not sufficiently clear in their arrangement, and that they are moreover incomplete, since that gold which is gained (though not in considerable quantity) in Panama, as well as in Choco and Barbacoas, is not indicated by the customs figures. During the fiscal year 1884–'85 the production of the precious metals probably decreased about 20 per cent. because of the civil war then prevailing.

That part of Colombia which lies between the Pacific ocean and the river Magdalena, or the central Cordillera chain, and between the first and ninth degree of latitude, containing an area of about 250,000 square kilometers, is extraordinarily rich in gold. It contains, moreover, treasures of silver ores, and of platinum bearing alluvium. A great increase of the Colombian production of the precious metals may therefore be expected as soon as use is made of modern methods, and especially of chemical methods, which hitherto have been used to but a slight extent. As much as 50 per cent. of the gold and silver is said to be lost at present. It is added:

A number of English companies are carrying on quartz mining with more or less success. The Tolima Company and the Frontino and Bolivia Companies pay satisfactory dividends. The Organos Company and the Orita Company still maintain hopes of success. According to all the indications we may expect for the future an annual gold product of about 3,000,000 pesos from Colombia.

The German traveler Thieleman, who took a look some years ago at the gold washings on the coast of Colombia, mentions that they are worked almost entirely by negroes, who produce no more than their very simple subsistence requires. He reported the annual product of the gold washings at about 2,500,000 pesos.

In a report of the legation of the United States in Bogota the yield for the year 1882 is estimated somewhat higher, namely, at 3,856,000 pesos gold, and 756,000 pesos silver.

In the yearly reports of the American Director of the Mint the production of gold in Colombia was formerly put at only 3,500 kilograms,

but for 1881 it is given at 6,019 kilograms, and for 1882 at 5,802 kilograms.

From a communication from Professor Lexis we take the following statements:

The yearly yield of the precious metals in Colombia, which was from 1863 to 1869 only \$2,615,000, reached from 1869 to 1881 \$3,198,000, and amounted in 1882 to \$4,317,000, of which \$3,566,000 was gold or gold-yielding silver.

In 1885 the revolutionary movements checked production, which, however, is likely in the future to reach its former extension. If we were to make an estimate for 1886 from the monthly notices which appear here and there in the London Mining Journal, there would result for the Frontino and Bolivia Gold Mining Company about 15,000 ounces; for the Organos Company, 3,200 ounces; the Orita Company, 1,000 ounces; the Colombia Hydraulic Company, 800 ounces. The Tolima Company produced between 90,000 and 100,000 pesos gold-yielding silver. In the smelting works of Sabaletas there were produced from the ores of the Sancudo mine about 300,000 pesos silver, containing 6 to 8 per cent. of gold. The silver mines of the district Marmato yield annually 480,000 pesos silver, with about one-half per cent. gold. The sand of all the rivers contains gold, especially that of the Cauca river. Hitherto this gold has been washed by the natives in the most primitive manner, with a monthly yield in the dry season of about 5,000 pesos. This gold contains 24 to 33 per cent. of its own weight in silver. The most gold comes from the gold mines of the Marmato district, which have been worked for more than a century, and have yet given no signs of exhaustion. The Western Andes Company, producing silver, declared in 1885 dividends of £6,043.

All appearances indicate that the production of the precious metals in Colombia will show an increase rather than a diminution, so soon as their working is better carried on.

The production which in recent times has developed itself in the Venezuelan province of Guiana, as well as in French and in Dutch Guiana, has hitherto received too little attention. We take the following notice from the reports from Caracas in the German Handelsarchiv. The declared export of gold from Guiana is estimated for the period from 1867 to the close of 1883 at 1,292,594 ounces, and was in value more than 120,000,000 Bolivares (francs). In the single years the export was:

	Ounces.
1876	86, 530
1877	100,989
1878	95, 205
1879	
1890	
1881	
1882	
1883	168 443

By far the greatest part of the Venezuelan production of gold comes from the Callao mine. This mine yielded in the year 1881 alone 72,255 ounces of gold from 24,978 tons of rock, having a value of nearly 7,000,000 Bolivares. It divided in dividends 1,800,000 Bolivares. In 1882 there were produced 22,405 tons of rock, yielding 105,400 ounces of gold, with a value of 10,150,000 Bolivares. In the year 1885 this same mine yielded nearly 11,000,000 Bolivares (equal to 3,184 kilograms fine) of gold, there being on the average 2.42 ounces to the ton of rock; and 4,572,000 Bolivares were divided as dividends. The total gross product from 1871 to 1885 amounted to 25,400 kilograms fine, or 87,688,953 Bolivares.

The other mining concerns of Venezuela produce at a loss, so far as is known, yet produce a considerable quantity of gold, and do not give up hopes of better results. In the year 1885 the New Chili mine produced 25,000 ounces of gold out of 30,000 tons of quartz. The gross product of the New Potosi mine was 4,600 ounces, against 8,650 ounces in the year 1884. On the whole, Professor Lexis is of the opinion that the gold product of Venezuela for 1884 and 1885 may be put at 5,500 kilograms per year. Since much gold is exported from Venezuela without being declared, and since there is a considerable product of gold in French and Dutch Guiana, the total gold product in recent years in Guiana may be accepted as exceeding 6,000 kilograms per year.

In the Mining Statistics of France for 1881 a production of gold of 1,875.5 kilograms, with a value of 6,549,100 francs, is mentioned, which must refer to the production of French Guiana. A consular report from Cayenne estimates that as early as 1876 the export of gold was 1,858 kilograms. The export of gold from Surinam, according to the customs records, amounted in 1884 to £108,808 in value, and in 1885 to £110,981. It is supposed that in addition 5 to 10 per cent. of these amounts were exported secretly in order to escape the export duty.

There is unfortunately great uncertainty as to the production of the precious metals in Peru, Bolivia, and Chili, and there are consequently great differences in the estimates for these countries. From the years from 1871 to 1875 we had estimated their product at about 4,480 kilograms gold, and 374,700 kilograms silver, and had assumed for subsequent years the same amount. Great interest attaches to good estimates, and even to any partial specific data which give us something to start with.

A consular report from Lima for 1878 estimated the total product of silver in Peru alone at 345,000 marks (nearly 80,000 kilograms).

According to the reports of the Director of the Mining School at Lima, the silver smelted in Peru in the year 1884 amounted to 50,333 kilograms, of which receipts at the Lima mint formed 43,420 kilograms, and 6,912 kilograms were exported in bars.

According to the official report in the Boletin de Minas, Lima, July 24, 1886, the production of silver in Peru was in 1884 about 72,700 kilograms fine, and in 1885, 84,000 kilograms fine. In both these sums it should be said that the silver supposed to be contained in exported ores is included.

The silver production in Cerro de Pasco, the most important point of production, was:

William

	THOKLEME
1879	38,913
1880	
1881	
1882	
1883	
1884	

In a report of the German consulate in Cochambamba for the year 1879 it is estimated that the silver production of Bolivia, exclusive of the coast region, is 600,000 marcos (138,050 kilograms) annually. In the report for 1881 it is said:

The mining of silver steadily increases. The mines have all struck good rich ores, and show a considerable product. The larger companies are said even to divide 50 per cent. dividends. These favorable results have encouraged a formation of a number of new companies for working with a sufficient capital abandoned mines, as well as for the discovery of new mines. A profitable future is prophesied for these new undertakings.

This view is confirmed in a report of the American embassy from La Paz of February 20, 1884. In this report it is said that in the year 1882 there was exported from Bolivia silver, coined and uncoined, to the value of 20,000,000 Bolivares, equal to about 450,000 kilograms of fine silver. The Government had farmed the tax on silver mines, and therefore it was the interest of the farmers and of the producers to understate the produce of the mines as much as possible. Inquiries from persons interested in silver mines and qualified to judge indicated that the product of the Peruvian mines for 1883 was to be estimated at 15,900,000 ounces (460,000 kilograms). The use of new machines and methods would still further increase this product.

In regard to the production of the precious metals in Chili the following information was given by the Government of Chili in answer to questions put by the embassy of the United States. It was said that, as no statistics were at hand giving an exact answer to the question, information could be given only in regard to what was bought by the mint and what was declared for export. From these data some conclusion could be given to the graph of the production.

be reached as to the probable extent of the production.

•	1880.	1882.
Gold bought by the mint	Pesos. 107, 477 21, 393	Pesos. 139, 965 22, 796
Total in gold	128, 870	162, 761
Silver bought by the mint	1, 709, 007 8, 872, 740	1, 466, 812 3, 857, 851
Total in silver	5, 081, 747	5, 324, 663

## This yields a probable product by weight as follows:

	1880.	1882.
Gold	Kilograms. 178 114, 300	Kilograms. 223 119, 800

## The export of silver from Antofagasta was as follows:

Year.	Spanish marks.	Year.	Spanish marks.
1878 1879 1880	802, 500	1881 1882 1883	276, 700

That is an average of 62,300 kilograms for the six years.

In the reports of the Director of the Mint at Washington, the yearly production of silver in Bolivia, Peru, and Chili, taken together, was put until 1880 at 250,000 kilograms. But this estimate was increased for 1882 to 392,783 kilograms, and for 1883 to 513,031 kilograms. Other confirmatory reports state that in 1883 there was an unusual production of silver in Bolivia (a bonanza), which, however, has not proved permanent. In individual years since 1880 a particularly large export of silver has sometimes taken place, which has been the result of the excessive issue

of irredeemable paper money. This has probably driven abroad the greater part of the coins in circulation. We believe that it would be near the truth to put the silver production of Peru, Bolivia, and Chili, taken together, from 1876 to 1885 at 425,000 kilograms per year. In some years the total may have been raised by an extraordinary yield from particular mines to 500,000 kilograms; in other years may have gone down to about 350,000 kilograms. In regard to the production of gold in these countries in recent times, it seems to us an underestimate when it is put at only 300 to 350 kilograms per year.

The greater part of the Mexican and South American product of the precious metals goes first to England, and the import of gold and silver into England from these countries therefore serves to indicate approximately their production. According to the customs records there were imported into England from Mexico and South America (exclusive of Brazil) precious metals in bars and in non-British coins as follows:

Years.	Gold.	Silver.
Average of— 1876–1880	Ounces. 222, 300	Ounces. 14, 255, 000
1881	140, 000 122, 800	14, 255, 000 9, 016, 000 15, 089, 000
1883	150, 000 170, 600	17, 711, 000 20, 934, 000 18, 067, 000
1885	212, 000	18, 067, 000

Taking an average of the five years, 1881–1885, we get an annual import from Mexico, Colombia, Guiana, Peru, Bolivia, and Chili of 4,948 kilograms gold and 1,257,000 kilograms silver. These figures can be made to agree with the estimates we have given of the total product, and the general correspondence of such independent statements indicates that we can get near enough to the truth.

The gold product of Brazil, formerly so large, has been comparatively small for several decades. Only the St. John del Rey Mining Company can show considerable operations and some profit. The Morro Velho mine of this company produced, according to the published reports, the following amounts of gold:

Years.	Oitavas.	Ounces Troy.	Value in £.
1888–'84	198, 716	22, 909	89, 202
1884–'85	226, 416	26, 102	101, <b>6</b> 34
1885–'86	242, 035	27, 903	108, 647

In the last fiscal year each ton of quartz yielded 0.473 ounce of gold, and 27.9 per cent. were lost. In the Cujaba mine of the same company there were produced in 1884–'85, 3,043 ounces of gold, and in the year 1885–'86 2,809 ounces. In the latter year the gross product was less than expenses by £1,455.

The Santa Barbara Mining Company produced, in the year 1885, 42,029 oitavas of gold, having a value of £17,862. The Pitangui mine produced in the same year only 6,922 oitavas of gold, equal to £2,964. The remaining mines yielded together but a few thousand ounces of gold and produced at a loss.

The total production of gold in Brazil has amounted in recent years on the average to no more than 1,000 kilograms fine.

English experts assert that the production of gold in Brazil may be greatly developed, since hitherto only outlying veins of quartz have been worked. The gold-bearing ore of the Cujaba mine is enormous in quantity. The assay indicates 0.380 ounce of gold per ton, but no more than 0.159 ounce was secured, showing a loss of 57 per cent. An improved method of amalgamation would secure the refractory gold which now is lost in the tailings.

We get from official statistics the following statements as to the production of precious metals in Germany, inclusive of the yield from im-

ported ores:

	Gold.		Gold. Silver.	
Years.	Kilograms.	Marks.	Kilograms.	Marks.
Average of—				
1831-1840	(*)	(*)	29, 800	5, 364, 000
1841-1850	(*)	(* <u>)</u>	36,000	6, 480, 000
1851–1860	17.3	48, 000	55, 235	9, 943, 000
1861-1870	61.4	171, 000	78,722	14, 170, 000
1871–1875		<b>793, 00</b> 0	143, 080	23, 754, 000
1876	281.3	<b>784, 658</b>	139, 779	21, 969, 415
1877		857, 845	147, 612	23, 812, 050
1878		1. 056, 338	167 <b>, 66</b> 0	25, 890, 832
1879		1, 802, 898	177, 507	26, 518, 129
1880		1, 291, 752	186, 011	28, 607, 561
1881		1, 062, 565	186, 990	28, 514, 081
1882		1, 051, 155	214, 982	<b>32, 763, 057</b>
1883	457.8	1, 278, 312	235, 063	35, 087, 897
1824	555	1, 550, 858	248, 116	87, 055, 861
1885	610. 6	1, 705, 608	(277,900)	(39, 750, 000)

\* Inconsiderable.

Of the total silver product of the year 1885, 79,952 kilograms came from the Kingdom of Saxony (Freiberg), 75,075 from the Mansfield mines, 49,321 kilograms from the Clausthal mines, 33,127 kilograms from the Stollberg Company, 50,425 kilograms from other sources.

At present Germany produces about 9 per cent. of the total product Such gold as is produced in Germany is obtained, with insignificant exceptions, by separation from silver and silver ores, or from copper and copper ores. The German refining works have attained extraordinary skill in such work, and of the silver produced in German works a considerable part comes from the imported ores. Exact statements as to the extent of this importation are lacking since 1876. For that year (1876) the official statistics stated the production of silver from foreign ores to be 16,633 kilograms. Trustworthy estimates indicate that in 1878 this product had risen to about 43,500 kilograms. For the year 1884 it is estimated that silver production in Germany was about 160,000 kilograms from domestic ores and 88,000 kilograms from imported ores. The increase of our production of silver is therefore to be ascribed mainly to the increasing use of foreign raw material. In the year 1884 there were produced on account of the fiscal works in Harz and at Freiberg about 85,000 metric cwt. of silver ore, which yielded about 235 kilograms gold and about 50,000 kilograms silver, having, all told, a value of about 8,000,000 marks. It is a curious distortion of the facts to assert, as has sometimes been done, that the importation of foreign silver ores from the west coast of America, from Spain, and latterly even from Australia, for smelting in Germany, is to be regretted because it serves to drive gold out of Germany in exchange for silver, of which there is already more than enough. It should be remembered that the silver ores are paid for by the export of German commodities; that the mixture of foreign with domestic ores is necessary for the more perfect working of the latter; that Germany exports far more in refined silver and in manufactures of silver than the imported ores cost; and, lastly, that no inconsiderable decline in the demand for German labor would result if foreign silver ores were excluded.

In Austro-Hungary the production of the precious metals, according

to official statements, was:

Years.	Gold.	Silver.
1851-1855	Xilbgrame. 1, 775 1, 560 1, 690 1, 650 1, 395 1, 903. 6 1, 713. 4 1, 824. 1 1, 610. 6 1, 645. 4 1, 597. 3 1, 740. 8	Kilograme. 35, 000 81, 700 36, 500 89, 970 38, 550 47, 947 47, 675 48, 662 48, 195 47, 701 48, 912 47, 663
1883 1884	1, 647 1, 703. 3	49, 235 49, <b>9</b> 07

We may now mention recent reports from other countries producing the precious metals, in order that they may not be entirely neglected.

The mines of Norway produced in the fiscal year 1883-84 6,387 kilograms of fine silver, and the Swedish mines produced in 1883 1,583 kilograms and in 1884 1,816 kilograms.

In Great Britain silver was produced as follows from domestic lead

ores:

Years.	Amount.	Value.
1878	Ounces. 397, 471 833, 674 293, 518 808, 398 372, 544 344, 053 825, 718 320, 520	£88, 297 70, 900 63, 015 67, 140 10, 426 72, 484 68, 791 64, 935

The production of silver in British smelting works from imported ores is much larger. In the year 1885 silver ores were imported into the United Kingdom of the declared value of £1,085,227, of which £288,992 came from Spain, £514,844 from America, £117,841 from Australia. It should be stated that the value of these ores consisted mainly in the silver contained in them.

It is probably not too high an estimate if the yearly production of silver in Great Britain in recent years is put at about 120,000 kilograms fine.

For France, the official Statistics of Mineral Industry in France for 1881 state the production of silver to be 54,718 kilograms, of the value of 10,279,145 francs.

The silver production of Spain is estimated for the year 1880 at 65,871 kilograms, and for 1883 at 54,335 kilograms. The declared export of

silver in bars amounted in 1883 to 209,721 kilograms. The export of

silver ores and of silver-bearing lead is much larger.

In regard to the production of the precious metals in Italy the Annuario Statistico Italiano for 1884 contains the following statement for the year 1881: Silver ores were produced in four mines to the amount of 1,444 tons, having an average value of 1,550 lire, making a total of 2,238,951 lire. Gold ores were produced by twenty-four concerns to the amount of 12,190 tons, having an average value of 38.98 lire and a total value of 475,170 lire. Amalgamating establishments produced 214 kilograms of gold, having a value of 590,000 lire.

In the Dominion of Canada not inconsiderable quantities of gold have been produced, especially in British Columbia and Nova Scotia. The quantity of gold there produced is estimated for 1881 at 1,648 kilograms, and for 1883 at 1,435 kilograms. For Nova Scotia alone the production of gold is stated for 1882 to be £14,107, and for 1883 £15,446.

From Nicaragua there was in 1884 a declared export of 16,472 Spanish ounces of gold. The actual export is said to have been considerably larger. Opinions differ as to the future production of gold in that

region.

A number of stock companies have been formed in recent years for the purpose of carrying on the production of gold on the west coast of Africa, in the Transvaal, and in British India. With few exceptions they have been unsuccessful, and much capital has been entirely lost. Occasional instances of success may be mentioned, as follows: The Wassaw (Gold Coast) Mining Company, which in 1885 produced gold to the value of £5,497; the Moodie G. M. Company (in the Transvaal), whose monthly product in 1885 is stated to average 2,500 ounces (about £8,500). The Mysore G. M. Company (in India) divided 10 per cent. dividends in 1885. Its monthly product rose from 300 ounces to 1,000 ounces, and amounted in January of the present year (1886) to 1,135 ounces.

The export of gold from Port Natal is given for 1882 as £6,865, for

1883 as £20,293, for 1884 as £16,708.

It is worth noting in regard to the production of gold that, although by far the larger part of the new undertakings which begin actual work, not to mention the mass of swindling concerns which never get so far, lose money and are soon given up, yet not inconsiderable quantities are produced by such undertakings and make their way into trade. Whether the sum invested in producing this gold is replaced by the product is immaterial, since the new gold is there, and the sovereigns which the stockholders may have put out in expenses are not lost.

The share which the chief producing countries had in the total production of the precious metals between 1851 and 1885 may be estimated as follows (the value of silver being reckoned according to the actual ratio):

Countries.		Gold.	
United States. Australia Russia Mexico, Colombia, Brazil Other countries  Total	Marks. 6, 697, 500, 000 6, 841, 600, 000 2, 977, 800, 000 707, 700, 000 1, 385, 500, 000	Per cent. 37. 6 35. 6 16. 7 4. 0 6. 1	

Countries.	Silver.	
United States.  Mexico Peru, Bolivia, Chili Germany Other countries  Total	Marks. 2, 551, 100, 000 3, 326, 100, 000 1, 672, 600, 000 668, 600, 000 1, 379, 500, 000 9, 597, 900, 000	Per cent. 26.6 34.4 17.6 7.0 14.4

Finally, for the sake of comparison and completeness, we insert the estimates of the world's production of the precious metals, which appear in the annual reports of the Director of the Mint of the United States:

Total production of the precious metals in 1883 and 1884.

					1883.							18	<b>184.</b>				
Countries.	Gold.		8	Silve	er.			Gold	1.	1	Silver.						
	Kilos.				Kilos.		<del> </del>		Kilos.				Kilo				
United States	45, 140	<b>\$</b> 30,	000,	, 000	1, 111, 45	7 🗱				<b>, \$</b> 30,	, 800,	,000	1, 174,	205	<b>\$48</b> ,	800,	, 00
Russia	89, 913	23,	868,	000	7, 78	1,	323,	, 000	32, 829	)¦ 21,	, 818,	, 000	9,	336	i	388,	, 00(
Australia	<b>89, 873</b>	26,	<b>500</b> ,	, <b>00</b> 0	2, 15	1	89,	, 000	42, 960	28,	, 551,			788		116,	
Mexico	1, 🗫8		956,	000	711, 34	7 2	9, 566,	000	1,780	1,	183,	, 000	655,	<b>868</b>	27,	258,	, 001
German Empire			304,	, 000	230, 69	4	9, 589,	000	555		369,	000	248,			313,	, 001
Austro-Hungary	1, 638	1,	089	000	48, 70	8	2, 025,	000	1, 658	1,	102,	,000	49,	424		054,	
Sweden	37		25,	000	1, 58	3		000		)¦	13,	000		816		75,	
Norway					5, 64	5	235	000			• • • •	<b></b>		387		266,	
Norway	100	ļ	72,	000	4.	2		000	109		72,	000	· ·	432		18, 148,	, 004
spain Turkey			• • •	• • • •	74, 50	0	3, 096	000				• • • •	3,	562		148,	, 001
Turkey	10	Ì	7.	,000	2, 16	4	90,	000	10		7.	000	2,	164		90,	, 001
Argentine Republic	118		78	000	10, 10	9	420	000	118	3		000	10,	109	•	420,	, 00
Colombia	5, 802			000		3		000			856	000	18,	286	ļ	760,	, 00
Bolivia	109	,		000			6, 000					000		985	16,	000,	,00
Chili			163	000	128, 10	6	5, 325				163	000				325	
Brazil				000					952			000				• • • •	, • • •
Japan		1		000		1	878,	000				<b>COO</b>		121	•	878,	. 000
Africa		1.	994	000					8, 000	1	994	000			١		
Venezuela	5, 022	3	338	000					5, 022	2 3	338	000			1		
Canada	1, 435			000	,	- 1	68,		, -,	·	,,	000	1		,		
France	_,	ſ		•		ā	284	000	2, 20	1				356		264.	
Peru	179		119	000			1, 908				119,	,000		909		908,	
Total	141, 733	94,	197	000	2, 812, 97	_`_ 2 11	6, 923	000	143, 38	95	292	000	2, 770,	610	115,	148,	00

In what has preceded we have contented ourselves with presenting such detailed statements as are either of importance for the total or else significant as illustrating the variations in different statements. These statements have been the basis of the figures summarized in the tables. We have also referred to certain noteworthy events in the production of the precious metals in recent times, although for the present they are not of any great importance. We can not enter into a detailed and critical consideration of the most recent phases of the production of the precious metals. Such an investigation should be separately undertaken. What has here been presented is meant to give information only on the salient points. Above all, we wish to present material by which the practical importance of certain essential changes in the conditions affecting the production of gold and silver may be more easily understood. For such a purpose detailed figures seem less useful thau the concisest possible presentation, even though this latter may be open to the charge of being incomplete and based on scant authority.

# PART II.

RATIO OF SILVER TO GOLD.

### PRICE OF SILVER IN LONDON

[From the reports of Pixley & Abell, bullion brokers, in

Years.	January.	February.	March.	April.	Мау.	June.
851	614 601-601 618	61½-61¼ 60½ 61¾	61½ 60å 61;	61½ 59½-60 613	61 <del>1</del> -611 597 60 <del>1</del> -618	607-611 597-601 608-611
1854	611-611 611-611 611-611 621 611	61 6 61 1-61 6 61 1-61 7 61 1-61 7 61 1-61 7	617 607 601-61 613-612	615-617   608   608   608   618-617   612-617	607-613 611-613 61 -613 61 -613 613-613	611-611 611 601-611 611 611-611
1859	613-62 62 -627 614-617 61 -618	613 62 -623 613-613 613-613	613-623 613-623 603-61 613-613	61 <del>1</del> 62 <del>1</del> 61	621-623   615   603-603   611-615	62 -62} 61\$-61\$ 60\$-60\$ 61 -61\$
863	614-614 617-624 614-614 614-614 607	611-611 611-617 611-611 601-611 601	613-613   613-613   61 -613   603-61   603-603	61 -613 613-613 603 61 -611 603-611	611-611 603-611 604-602 61-62 601-603	61 -61 61 -61 60 -60 61 -62 60 -60
868    869    870    871	603-607 603-607 603-603 601-603	603-601 601-61 601-601	601-611 601-601 601-601 601-601	601-618   601-608   608-601   60-8-601	60 -60   60 -60   60 -60   60 -60   60 -7 -60	60 60 -60 60 <b>3-</b> 60 60 <b>3-</b> 60
1872 1873 1874 1875	605-615 592-59}5 58 -595 575-576 543-565	601-611 591-5915 581-59 571-571 53 -541	602-607 593-593 583-593 57 -571 523-541	601-607 591 581-591 571-571 531-54	60-7-604 593-592 583-582 564-57 52 -54	60 -603 59 5-593 583-59 533-553 50 -52
877	56%-584 534-54 498-51 524-523	56 -57\\ 53\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	531-501 541-55 482-501 511-521	534-55 534-544 494-504 513-524	538-548 531-537 50 -517 5216-521	531-54 521-531 511-53 527-521
881	51 -513 5113-523 50 -5078 503-51 493-50	511-526 52 -5216 508-51 51 -511 4813-4978	52 -52 \\ 51 \\ 52 \\ 51 \\ 52 \\ 51 \\ 52 \\ 50 \\ 51 \\ 50 \\ 61 \\ 60 \\ 40 \\ 60	52 -52 k 52 -52 k 50 -52 k 50 -50 k 50 -51 48 k -49 k	51½-52 52½-52,7 50½-50¾ 50½-50¾ 48½-50	51 -513 517-523 507-503 501-503 49 -493

From 1851 to 1872 the average price of silver at Hamburg was a fixed one of 27 marcs 12 schillings pound of fine silver. [The marc banco was = 1½ marks of present German money. The "mark"

IN THE YEARS 1851-1886.

pence sterling per ounce standard (37.40) of silver.)

banco per mark of fine sliver (1 mark  $\Rightarrow$  16 loth  $\Rightarrow$  233.85480 grams); equivalent to 50½ marcs per here referred to by Dr. Soetheer is a measure of weight.—Translator's note.]

### RATIO OF SILVER TO GOLD.

[Calculated from the London price of silver.\*]

Years.	January.	February.	March.	April	May.	June.	July.	August.	September.	October.	November.	December.	Average per year.	Average per year in Hamburg.
1851	16. 35 17. 53 18. 84 17. 96 18. 36	15. 88 15. 28 15. 38 15. 24 15. 27 15. 19 15. 41 15. 32 15. 33 15. 33 15. 53 15. 53 15. 59 15. 45 15. 60 15. 58 15. 75 16. 42 17. 38 18. 12 18. 60 18. 12 18. 12 19. 17	15. 26 15. 36 15. 47 15. 27 15. 32 15. 26 15. 18 15. 33 15. 41 15. 52 15. 54 15. 57 15. 59 15. 61 15. 75 16. 00 16. 51 17. 67 17. 16 17. 30 18. 14 17. 99	15. 68 15. 26 15. 52 15. 46 15. 27 15. 36 15. 29 15. 44 15. 54 15. 54 15. 54 15. 55 15. 65 15. 57 15. 66 15. 57 16. 47 17. 44 18. 64 18. 64 18. 18	15. 75 15. 43 15. 33 15. 33 15. 33 15. 33 15. 33 15. 33 15. 33 15. 35 15. 55 15. 65 15. 65 15. 68	15. 73 15. 46 15. 33 15. 43 15. 26 15. 33 15. 40 15. 57 15. 57 15. 59 15. 62 15. 63 15. 70 15. 63 15. 70 15. 63 15. 70 17. 76 18. 74 17. 76 18. 77 18. 77 18. 77 19. 22	15. 33 15. 40 15. 29 15. 44 15. 13 15. 44 15. 46 15. 45 15. 55 15. 59 15. 61 15. 64 15. 57 15. 68 15. 90 16. 15 16. 90 17. 44 17. 90 18. 71 18. 57 18. 57 19. 17	15. 62 15. 30 15. 33 15. 35 15. 24 15. 21 15. 36 15. 36 15. 41 15. 46 15. 54 15. 57 15. 64 15. 64 15. 64 15. 64 15. 64 15. 64 15. 64 15. 68 16. 26 16. 26 16. 26 17. 42 17. 97 18. 29 18. 15 18. 66 18. 59	15. 32 15. 51 15. 33 15. 57 15. 33 15. 51 15. 63 15. 60 15. 62 15. 63 18. 21 17. 32 18. 23 18. 23 18. 23 18. 57 18. 58	15. 49 15. 40 15. 36 15. 21 15. 26 15. 21 15. 29 15. 52 15. 33 15. 38 15. 46 15. 46 15. 61 15. 61 15. 61 15. 61 15. 70 16. 33 16. 56 17. 96 17. 13 18. 71 18. 11 18. 11 18. 15 18. 23	15. 29 15. 32 15. 47 15. 35 15. 47 15. 10 15. 47 15. 59 15. 59 15. 59 15. 50 16. 26 16. 26 17. 30 17. 30 17. 30 18. 38 18. 38 18. 38 18. 38 18. 38	15. 35 15. 36 15. 36 15. 36 15. 21 15. 35 15. 35 15. 39 15. 39 15. 39 15. 54 15. 59 15. 59 15. 59 16. 40 17. 74 16. 61 17. 74 18. 19 18. 18 18. 70 18. 58 18. 98	15. 33 15. 36 15. 36 15. 36 15. 36 15. 36 15. 38 15. 38 15. 43 15. 43 15. 60 15. 60 15. 60 15. 60 15. 60 17. 93 16. 16 16. 63 17. 93 18. 24 18. 27 18. 65 18. 63	15. 42 15. 32 15. 32 15. 32 15. 32 15. 32 15. 32 15. 32 15. 32 15. 32 15. 53 15. 53 15. 54 15. 56 15. 56 16. 57 17. 72 18. 60 18. 62 18

For the years 1851 to 1880 these figures are taken from Dr. O. J. Broch's Tableaux présentées a la conférence monétaire, l'aris, 1881. An obvious mistake (or misprint) for July, 1874, is corrected, the figure 16.96 for that month being replaced by 16.15, which corresponds to the price of silver at that date. After 1880 the ratio is based on Pixley & Abell's prices.

<sup>\*</sup>Let d mean the price in pence of an ounce Troy of standard silver (0.925 fine), and let  $\omega$  mean the corresponding ratio between silver and gold; then  $d \times \omega = 942.9956$ .

## REMARKS ON THE TABLES SHOWING THE RATIO OF SILVER TO GOLD.

In the second part of the essay published by us in Petermann's Mittheilungen we have considered in detail the ratio between silver and gold up to the year 1878. In the present paper we confine our atten-

tion, for the period before 1851, to certain salient points.

The earliest information which we have on this subject is furnished by the carefully-made standards which were discovered in the foundations of the palace of Khorsabad, built by the Assyrian ruler Sargina in the year 708 B. C. The gold plate weighs 167 grams, and was 38 of the light Babylonian mine. The silver plate weighs 438.62 grams, and was meant beyond doubt to be the equivalent in silver to 15 of the gold mine. These plates are in value to each other as 5 to 1, in weight as 3 to 8; from which we conclude that the normal ratio of gold to silver in the ancient Asiatic civilization was 3:40, or 1:13 d. In view of the stability of industrial conditions in Oriental countries, it is likely that this ratio had already existed many centuries before the building of the palace. The same ratio held good under the Persian kings, as is proved by the fact that Herodotus calculates the tribute paid by the Indians at 360 talents of gold, or 4,680 talents of silver, which indicates a ratio of 1 to 13.

In a philosophic treatise of about the year 400 B. C., entitled *Hipparchos*, it is mentioned as a well-known fact that in Greece gold was worth twelve times as much as silver.

Many calculations found in inscriptions and other records of the period between the Peloponnesian war and the time of Alexander the Great show that in those days the ratio between gold and silver in Greece maintained itself somewhere between 1:13\frac{1}{2} and 1:11\frac{1}{2}.

After the conquest of the Persian empire a larger quantity of gold made its way to Greece. The sack of the treasures at Delphi also served to add gold, and the value of gold as compared with silver sank to 1:10. This ratio was also used in the year 189 B. C., in the treaty of peace between Rome and the Ætolians.

In Rome, in the sixth and seventh centuries A. U. C., the pound of gold was reckoned at 4,000 sesterces. This indicates a ratio of 1:11.91,

a ratio which remained unchanged till the time of Augustus.

It is mentioned that in the year 218 B: C. the scruple of gold was coined into 20 sesterces, indicating a ratio of 1:17.14. It is also reported that about one century B. C., after the discovery of the rich gold field of Aquileja, the value of gold sank by a third (\frac{1}{3}). Further, it is said that when Cæsar brought great sums of gold from Gaul, the pound of gold was sold for 3,000 sesterces, indicating a ratio of 1:8.93. But all these seem to have been exceptional cases of temporary duration, which are mentioned by historians only because of the surprise which they aroused at the time.

Reckoning the ratio of gold to silver according to the coinage regulations of the first centuries of the imperial era, we find that the ratio varied from 1:11.30 to 1:12.20.

In the imperial ordinances of the years 397 and 422 (Cod. Theodos., XIII, 2, 1, and VIII, 4, 27) it is provided that a pound of silver shall be accepted as equivalent, sometimes to five, sometimes to four, gold solidi, which would indicate a ratio at that time sometimes of 1:14.4, sometimes of 1:18. It is, however, our opinion, which we have not space here to support by full discussion, that these ordinances do not indicate

what was the ratio in trade, but were meant simply to lighten the payment of debts, and also to encourage payments in gold. An appreciation of gold at the dates of these ordinances is, it is true, not improbable, since in those troubled times the practice of hoarding may well have been common, and gold was most likely to be used for that purpose.

For the first centuries of the Middle Ages our data in regard to the ratio of the precious metals are few and uncertain. The Edictum Pistense, in the year 864, enacted for the Frankish empire that the pound of gold (fine) should pass at no higher rate than 12 pounds of silver of new and good denarii; and that a pound of gold which, though refined, was not refined to such a degree that it could serve for gilding, should pass for 10 pounds of silver. It must be remembered that the denarii, even though not intentionally debased, contained by no means fine silver, and that on the other hand the cost of coinage has to be reckoned in comparing gold to the silver coins. Assuming these two circumstances to balance each other, we should get for the Carolingian period a normal ratio of gold to silver of 1:12. For subsequent times, up to the beginning of the sixteenth century, we have a large number of mint ordinances and mint treaties of various countries, from which the ratio in which gold and silver were coined may be calculated. But it is a great mistake to suppose that from such sources we can obtain with certainty the actual ratio between the precious metals. The sudden and great changes which are apt to occur within very short periods in the regulations of one and the same mint suffice to make us suspicious, not to mention the great discrepancies between the contemporary regulations of different countries. The task of sifting the various data for the Middle Ages and of securing statements that will indicate with some accuracy the actual ratio at different times is an exceedingly difficult one. Upon the whole it may be said that the ratio between gold and silver was, in European countries between the ninth and the sixteenth centuries, somewhere from 1:12 to 1:10. Yet there are certain striking exceptions; as when, for instance, a code of Jutland of the thirteenth century makes one mark of gold equivalent, in valuation of land and in fines, to eight marks of silver. We limit ourselves to a few trustworthy statements which refer to actual transactions or to actual coinages of both metals at the same time.\*

In Lubeck the purchases of gold and silver took place according to the following ratios: In 1346, at a ratio of 1:11.33; in 1365, at 1:11.37; in 1441, at 1:11.12. The contemporaneous coinage took place at a ratio of from 1:12 to 1:12.40. Professor Rogers gives certain notices, gathered from ancient accounts. According to these, in the year 1262 and subsequent years, the mark of gold was considered equal sometimes to 9 marks and 11½ shillings of silver, sometimes to 10 marks of silver, and sometimes to 9½ marks of silver; which gives on the average a ratio of 1:9.74. A bill of the year 1292, on the other hand, reckons 270 gold guilders, weighing 53½ ounces, as equal to 668¾ ounces of silver; which would give, if the gold and silver were equally fine, a ratio of 1:12.54. It seems certain that extraordinary changes took place at that time in England; and it is practically impossible to get any average from scattered notices of this kind.

The best way to get an approximately correct statement of the ratio of gold to silver in the trade of the Middle Ages probably is to use the

<sup>\*</sup>The authorities for these statements may be found in our essay above cited, and in Rogers's History of Agriculture and Prices in England. Compare also W. Schalk, Münzfuss der Wiener Pfennige.

table which is printed in the well-known treatise, Della Decima \* della Moneta e della Mercatura de' Fiorentini (published in 1765.) Gold and silver were coined as follows:

Years.	Grains of gold in gold florin.	Grains of silverin lire.	Ratio.	Years.	Grains of gold in gold florin.	Grains of silver in lire.	Ratio.
1252	72 72 701 713 713 68 713	770 783½ [sic] 960 [sic] 778½ 772½ 717½ 729	1:10,70 10,85 13,62 10,85 10,79 10,86 10,18	1460	71\$ 71\$ 72 72 72 72 72 72	6728 6741 [sic] 82221 76038 7818 7528 7528	9, 36 9, 38 11, 48 10, 87 10, 86 10, 45

Putting aside the years 1324, 1345, and 1464, in which it seems likely that the mint set an exceptionally high value on gold in order to attract it to the town, we find that there was in Florence, then the central point for monetary transactions, a fairly stable ratio, varying between 1:9.33 and 1:10.87.

For the period from the discovery of America to the year 1687 (when we begin to get continuous and exact figures) we have more numerous data than in the preceding centuries; yet we cannot by any means find continuous, detailed statements.

Copernicus prepared in 1526 for King Sigismund a memorial on the reform of the coinage of Prussia, in which he said it was the general practice of nations to consider 1 pound of pure gold as equal to 12 pounds of pure silver; while in former times 11 pounds of silver had been equal to 1 pound of gold. This statement, however, does not tally with the examples occurring in the common account-books (Rechenbücher) of that period. It must be supposed, upon the whole, that these account-books give the prices that obtained in actual trade, the more so, since their estimates are frequently repeated with but slight variations. Their prices are generally given for the mark fine of silver or for the carat fine of gold, so that the ratio is clearly presented. an account-book of Widman von Eger (edition of 1527), the average price is 7½ guilders for the mark of silver and 3½ guilders for the carat of gold; in Adam Riese's account-book, as revised in 1518, the average of nine statements indicates a price of 8.13 guilders for the mark of silver and 83.82 for the mark of gold. The first statement gives a ratio of 11.2:1; the second, a ratio of 10.31:1. Copernicus, as already stated, asserts that in 1526 the usual ratio was 12:1, a ratio much more favorable to gold. This is explained, perhaps, by the fact that Copernicus understood the prices of silver, as communicated to him, to be for fine silver, whereas they may have referred to what was called fine silver in the language of the time; that is, as to silver 15-16 fine. According to a coinage edict for the Empire, approved November 10, 1524, at Esslingen, the mark of gold was to be coined into 89 gold guilders 22 carats fine, while the mark of silver, 15-16 fine, was to be coined into 8 thalers. This indicates a ratio of 11.38:1.

We have gone into this detailed discussion of a single point chiefly in order to win the reader's confidence for the following summary statements, which rest upon careful investigation of the ratio to the close of the seventeenth century. The statements, it must be remembered, are no more than estimates, since considerable divergencies in different places and rapid variations in the same place were easily possible in those times. This being borne in mind, we present a table showing the

ratio of silver to gold in Germany, the Netherlands, and France for twenty-year periods between 1501 and 1700; and we have little fear that they vary greatly from the actual market ratios of those times and places.

Years.	Ratio.	Which corresponds to a price of allver in modern German (gold) marks of—
1501-1520 1521-1540 1541-1560 1561-1580 1581-1600 1601-1620 1621-1640 1641-1680 1681-1700	10,75: 1 11,25: 1 11,30: 1 11,50: 1 11,60: 1 12,25: 1 14,00: 1 14,50: 1 15,00: 1	260 248 247 243 236 228 199 192 186 186

We observe here a distinct tendency toward a rise in the value of gold as compared to that of silver—or, if another phraseology be preferred, towards a depreciation of silver—in the course of the sixteenth and seventeenth centuries; needless to say, with many and considerable variations and exceptions at different times and in different places. At the beginning of this period of two hundred years, ten and one-half pounds of fine silver would buy one pound of fine gold. At its close fifteen pounds of silver were needed to buy one pound of gold, indicating a depreciation of silver of about thirty per cent.

This great change in the ratio of the precious metals attracted at the time the attention of economic writers. The Italian Montanari says, as early as 1683, in his Trattato mercantile della moneta, after mentioning Bodin's statement of a ratio of 12:1, that "the ratio of silver to gold of 12:1 has changed to a ratio of 14\frac{3}{4}:1." This writer believed that the chief cause of the appreciation of gold was to be found in the trade with the Levant, by which great quantities of the precious metals were exported; and the silver exported remained in circulation in the East,

while the gold was hoarded.

The conclusions which we presented in previous publications as to the causes of this appreciation of gold, especially in the first half of the seventeenth century, have remained unshaken. We venture again to present these conclusions, since the events of that time present a close analogy to the similar changes in the ratio of the precious metals in modern times. What caused the extraordinary rise in the value of gold between 1601 and 1650? Was it simply an increase in silver production, leading to a fall in the value of silver; or was it a decrease of gold production, and an increased demand for gold, leading to a rise in the value of gold?

Looking first at the statements of the production of the precious metals, we find that the production of silver was greatly increased after 1545 by the rich silver mines of Potosi, and we can not be surprised if, in consequence, the relative value of silver should fall between 1550 and 1600. A fall, in fact, took place, yet a gradual and moderate one. Even in the years from 1601 to 1620 we note a slow change in the ratio. In the next three or four decades a quick and sudden rise in gold took

place, although no extraordinary change occurred in the production of the precious metals. It may be alleged that the effect of the former great changes in the production of the precious metals did not produce their effect before this date, and that the real cause of the fall of silver between 1621 and 1650 must still be sought in the great influx of silver that took place after 1545 from Peru, Potosi, and Mexico. We are not disposed to deny entirely that such a postponed effect may be traced. Yet the chief cause in the great and permanent rise in the value of gold after 1620 must still be sought in the increased demand for gold that then took place, an increase of demand which far exceeded the fresh supply coming from the mines of New Grenada and Chili. The cause of the increased demand is to be found primarily in the continuous wars in Europe, which, as is well known, caused gold to be in great request. Next, it is to be found in the growth of international trade in the seventeenth century, which, notwithstanding the extending use of bills of exchange, yet created the need for shipments of coin. Obviously gold, both intrinsically and because of the common prohibition of coin shipments, was a better medium than silver. Whatever may have been the decisive cause, there can be no doubt that between 1621 and 1650 a considerable and permanent change took place in the ratio of the precious metals in all civilized countries. If wars and the necessities of government treasuries were at the outset the chief causes, yet appreciations brought about by them could not have been permanent unless a further cause, the growing use of gold in international trade, had come into operation. No explanation of such an extraordinary change can be found in the conditions of the production of gold and silver. Nor can we believe, after repeated examination, that the rise in the value of gold is to be ascribed chiefly to mint regulations. On the contrary, these regulations are generally based on changes in the price of gold that had already taken place in the open market. It is difficult to see why the governments should arbitrarily give their gold coins a higher nominal value, and thereby degrade the ordinary money of the country. Where they wished to debase their coins they did it most easily by issuing cheaper and cheaper subsidiary coins, and devices of this kind were widely used in the sixteenth and the beginning of the seventeenth centuries. These events have nothing to do with the ratio of the precious metals, since the ratios based upon them compare only gold and current silver coins. An arbitrary appreciation of gold coins, as a means of bringing gold to the mint, was necessarily ineffective and led to loss, and was never used except for a very short time.

We now come to the explanation and statement of the ratio of the precious metals since the beginning of the seventeenth century. As it is not to be assumed that all those who make use of the present materials are also able to use our earlier publication of 1879, in which this subject was treated at large, and as it is our present object to provide all necessary material with completeness, we repeat our earlier statements. After the year 1687 we possess, in the regular quotations of the price of gold or silver at Hamburg or at London, trustworthy data for ascertaining the ratio between silver and gold. We present this ratio for the period between 1687 and 1832 according to the Hamburg prices; from 1833, according to the London prices. The calculation from the Hamburg prices was made as early as 1855 on the basis of the original quotations by the Hamburg Bureau of Statistics. This was done by ascertaining the highest, the lowest, and the average rates, from the 104 quotations of each year. After 1833 we gave up these Hamburg tables, and made use of the tables of the more important London brokers. We

should not omit to state, for the sake of completeness and impartiality, that the late Mr. Ernst Seyd prepared, for the years from 1733 to 1819, a series of figures noted at the Bank of England, which he compared with the Hamburg figures used by us. Mr. Seyd communicated no details as to these English quotations or as to the manner in which his averages were reached. He made the mistake, moreover, of assuming that, in giving the price of silver in pence per standard ounce, we were trying to ascertain the contemporary London price of silver by means of the Hamburg price. As a matter of fact, we carefully explained that we used this method only for the sake of expressing the price of silver more clearly in the terms now commonly used. It goes without saying that in the last century the greater cost of transportation and other circumstances might have caused the price of silver in Hamburg and in London to differ by several percents. As a market for silver, Hamburg, possessing as it did a bank money based on fine silver and a large fund of silver in the vaults of the bank, probably took higher rank than London. We therefore believe that the ratio as ascertained from the Hamburg quotations for the period from 1687 to 1832 is, upon the whole, the standard ratio. Mr. Seyd's criticism rests on his belief that "the prices of silver at London from the beginning of the century to 1872 are an absolute indication of the exact ratio between silver and gold. It is mathematically certain that the variations in the price of silver at London before 1873 above or below the price of 60% pence per ounce result only from changes in the actual value of silver."

Arranged by periods of several years, the average ratio of silver to

gold was as follows:

Years.	Kilograms silver for 1 kilogram gold.	Corresponding price of silver in pence per ounce.	Years.	Kilograms silver for l kilogram gold.	Corresponding price of silver in pence per ounce.
1701-1710 1711-1720 1721-1730 1781-1740 1741-1750 1751-1760 1761-1770 1771-1780 1781-1790 1791-1800 1801-1810	15, 15 15, 09 15, 07 14, 92 14, 35 14, 31 14, 64 14, 76	612 624 624 624 634 634 642 634 647 634 614 604	1811-1820 1821-1830 1831-1840 1841-1850 1851-1855 1856-1860 1861-1865 1866-1870 1871-1875 1876-1880 1881-1885	15, 80 15, 76 15, 83 15, 41 15, 80 15, 40 15, 86 15, 97	601 8 59 7 59 7 61 8 61 8 61 8 60 8 59 7 52 8 50 8

This table shows, for about one hundred and ten years beginning with 1681, a noteworthy stability in the ratio, especially when compared with the continuous rise in the value of gold from 1501 to 1650. The growth of international trade and the great increase in the Mexican production of silver might lead us to expect a further depreciation of that metal. If no such depreciation set in, it may be explained by the fact that the Spanish piaster became the coin in use for many international transactions. Moreover, there was a continuous and large flow of silver to the East, where, from time to time, gold was exchanged for silver at rates advantageous for Europe. In the years from 1751 to 1782 one notices even a slight fall in the value of gold. There is no doubt as to the cause of this phenomenon, since it took place at the time of the distribution over Europe of the increased gold product of Brazil.

The opinion was then commonly entertained by governments that legislation should fix the ratio of silver to gold by mint regulations. Consequently, the fluctuations in the value of gold, and especially its

rise after 1782, caused a number of regulations in different countries. None of these was of greater importance or effect than that of France, issued October 30, 1785, entitled, Déclaration du roi portant fixation de la valeur de l'or relativement à l'argent, etc. After an introduction stating that the intrinsic value of French gold coins was above their nominal value, and that they were continually exported, and that it was accordingly necessary to reduce the weight of the gold coins, the first article begins with the clear and simple provision:

Chaque marc d'or fin de 24 karats vaudra 15 marcs et demi d'argent fin de douze deniers, et sera reçu et payé dans nos Monnaies et Changes pour la somme de 828 livres, 12 sous, valeur des dits 15\frac{1}{2} marcs d'argent au prix actuel de 53 livres, 9 sous, 2 deniers, le marc.\*

This ordinance marks the origin of the ratio between the precious metals which for a number of decades was considered normal, and whose establishment at the mints by statutes and treaties is now desired in so many quarters. It can not be said that the ratio of 15½: 1 was at that time (1785) the actual ratio in free markets. For here a mark of gold was worth only about 15 marks of silver. The French ordinance obviously was intended to raise the nominal value and the current value of the new gold coins, in order to further the flow of gold to the mint and to prevent the melting and exportation of the new coins. The French coinage law of 1803 took its ratio from this earlier ordinance of 1785, enacting that 200 francs silver should be coined from the kilogram of silver  $\frac{9}{10}$  fine, while 3,100 francs gold should be coined from the

kilogram of gold  $\frac{9}{10}$  fine.

Since the beginning of the present century the ratio has become still more favorable to gold, and, as a rule, has gone higher than the point of 15½:1. The cause of the higher value of gold is mainly to be found in the wars that lasted until 1815 and in the increased productiveness of the Mexican silver mines up to 1810. There was at the same time a distinct decrease in the production of gold in Brazil. When peace was re-established, the resumption of specie payments in England on a gold basis caused a strong demand for gold, and the ratio rose to nearly 16:1. From that time until 1860 the average yearly ratio fluctuated between 15.95:1 and 15.62:1, so that, for this period also, a fair degree of stability existed. A fall in the value of gold was apt to take place in those years in which England needed unusually large imports of grain, which were paid for by remittances of gold to the continent. That the value of gold did not rise higher during this time was the result of the increased production of gold in Russia, which afforded a much needed substitute for the decrease in the production of Brazil, Chili, and New Granada.

The discovery of the Californian and Australian gold-fields completely revolutionized the conditions of the production of both metals. Thereafter two-thirds of the value of the total product came from gold, and but one-third from silver, the proportion of former times being exactly reversed. As, at the same time, the shipments of silver to East India rose considerably, there was general expectation of an inevitable depreciation of gold. Chevalier's book, which was translated into English by Cobden, maintained this opinion; and it is true that a depreciation of gold did, to a certain extent, set in. The price of silver, which had averaged 593 pence in the period from 1831 to 1850, rose in January, 1859, to 623 pence, and averaged, during the decades 1851–1870, 614 pence. But the most important cause of this rise in the price of silver was not the excessive supply of new gold, but the state of trade with

<sup>\* 12,830:200,160 :: 1:15.522.</sup> 

India, which caused, especially during the American civil war, a strong demand for silver. That the price of silver did not rise considerably higher was the result, as is well known, of the double standard—or, better, the alternate standard—of the Latin Union, which caused a large part of the new gold to be brought to Paris and Brussels for coinage, replacing silver coins. In the period from 1851 to 1870 over 6,000 millions of francs in gold were coined. Between 1867 and 1872 the average ratio became a very little higher than 15½: 1, in favor of gold. Beginning with 1873, the ratio changed still further in favor of gold. This is the event, analogous to the phenomena of the years 1620–1650, which has attracted so much attention from Governments, economists, and business men.

We have already given, in our general tables, the average price of silver for recent years. We add here certain tables of the highest, lowest, and average prices of each year since 1876, giving both Paris and London quotations:

	P	rice of silve	r in Paris acc	cording to Cle	ément Jugla	<b>r.</b>	ing	on price or according to Pickell.	cord-
Years.		P	rime resp. Pe	orte pr. 1,000	fos.		Pence	pr. st	
		Gold.			Silver.		9 <b>8</b> t	<b></b>	.689.
1	Highest.	Lowest.	Average.	Highest.	Lowest.	Average.	Highest	Lowest	Average
1876	pair 1 prime 2 prime prime 7 prime 7 prime 4 prime 8 prime 4 prime 5 prime 1 prime	‡ perte 1 perte pair pair pair 2 prime pair pair 1 prime pair pair	perte pair 11 prime 3 prime 3 prime 4 prime 2 prime 11 prime 21 prime 21 prime 2 prime	225 perte 110 perte 170 perte 175 perte 135 perte 140 perte 160 perte 167 perte 162 perte 220 perte 250 perte	35 perte 35 perte 98 perte 100 perte 117 perte 115 perte 129 perte 146 perte 155 perte 165 perte 215 perte	130 perte 72½ perte 134 perte 137½ perte 126 perte 127½ perte 144½ perte 156½ perte 156½ perte 192½ perte 232½ perte	581 581 561 531 527 527 517 511 60 4618	534 494 487 514 507 50 50 494 467	523 5418 524 514 624 514 504 486 467

The price of silver in August, 1886, was  $42\frac{5}{16}$  pence per ounce standard (equivalent to 125 marks per kilogram fine silver). This price, compared to the average price of the fifty years from 1821 to 1870, namely,  $60\frac{5}{8}$  pence (equivalent to 179 marks per kilogram fine), shows a fall of  $18\frac{5}{16}$  pence, or 30.2 per cent. In comparison with the highest price of silver,  $62\frac{3}{4}$  pence (equivalent to 186 marks per kilogram fine), reached in the year 1859, it shows a fall of 36.6 per cent. In the countries where the silver standard exists, as in British India, this change is considered, not a fall in silver, but a rise in gold. In July, 1872, one tolah of gold was sold for 17 rupees, indicating a ratio of 15.58; while in December, 1885, one tolah cost 22 rupees 2 annas, indicating a ratio of 20.22. The price of gold had risen 30.15 per cent.

It is not within the scope of the present publication to undertake a detailed consideration of the causes of the depreciation of silver since 1873, our object being to present nothing more than materials. There is a close connection between the views and proposals on the silver question, and the legislative measures of the particular countries, on the one hand, and, on the other hand, the opinions as to the cause of the depreciation of silver and the expectations as to its future price. Matters are now in a state of transition, and statistics can not be brought to a proper close.



CONSUMPTION OF THE PRECIOUS METALS.

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## CONSUMPTION OF THE PRECIOUS METALS.

The production of the precious metals has to be compared with their consumption, or use; the statistics of the latter are equally important. In general, there are three kinds of consumption of gold or silver in civilized countries: First, coinage and other monetary use; second, consumption in the arts, for ornament and for various purposes in industry, in manufactures, in the fine arts—all to be included under the term "industrial use"; third, net export to regions outside the civilized countries.

Over and above these various kinds of consumption, we assumed, in earlier publications, the existence of a "latent reserve" in the possession of civilized countries. We were compelled to resort to this expedient in order to explain the discrepancies which appear for specific periods between the production of gold and its use, a discrepancy which remained after the most careful investigation. By this term "latent reserve" we mean those quantities of the precious metals which are neither in circulation nor a reserve for credit obligations, which are not used as plate, ornaments, or for any direct use, but are retained for the time being without any real use. In this category we must place coins no longer legal tender in the hands of private persons, relics of coin in countries having a depreciated paper money, hoards of coin in general, and articles of gold or silver which are not used and are kept more or less hidden. This latent reserve is, of course, not a fixed amount, but increases or decreases in every country from time to time. As industrial conditions change, new amounts flow into it, or are taken out of it, for circulation or for use in the arts. The coin in the hands of mine owners or of speculators belongs, for the time being, to the same category.

1. COINAGE.

	Gern	oeny.	Austro-l	Huagary.		Russis.	
Years.						81	ver.
	Gold.	Silver.	Gold.	Silver.	Gold.	Legal tender.	Subsidiary cois.
	Marks.	Marks.	Floring.	Floring.	Roubles.	Roubles.	Roubles.
1837	164, 874	13, 803, 931		1, 149, 519	e-fin fi00, 000	ca4, 000, 000	
1858	6, 366, 735	25, 210, 576	5, 895, 635	52, 634, 972	e 00,000	ca4, 000, 000	
1659	2, 841, 822	68, 507, 142	10, 299, 044	67, 130, 946	c 00,000	OM4, 000, 000	····
1860	1, 150, 242	88, 869, 865	A 277, 768	85, 819, 172	97, 000	650, 000	^ ~50, 000
1801 1882	574, 695 575, 190	82, 726, 743 45, 877, 638	9, 860, 555 7, 8°8, 183	21, 467, 054 12, 214, 191	54, 000 70, 000	137, 000 43, 000	00, 000 00, 000
1803	781, 137	22, 560, 400	15, 400, 154	11, 510, 064	85, 000	25, 000	35, 000
B64	8, 542, 203	20, 907, 002	6, 264, 968	15, 110, 406	70,000	148, 000	05, 000
1665	408, 856	21, 501, 468	4, 325, 173	9, 714, 725	85,000	135, 000	13, 000
1866	9, 087, 464	80, 708, 060	4, 261, 838	7, 615, 977	89,600	130, 125	26, 003
1867	2, 471, 211	113, 191, 506	5, 732, 936	7, 767, 137	71,688	450, 068	82, 541
1868	2, 725, 937	26, 832, 068	5, 059, 902	9, 416, 208	10, 015	800, 005	00, 002
1809	******	10, 745, 025	8, 138, 917	1, 967, 724	26, 895	800, 008	00, 900
1870	140, 685	10, 515, 166	3, 940, 720	5, 458, 555	68,016	400, 009	00, 003
1871	58, 850 425, 542, 780	81, 925, 737 6, 160, 451	5, 568, 018 6, 783, 376	8, 890, 514 8, 624, 216	00, 024 69, 0 <del>2</del> 5	900, 005 1, 000, 005	20, 498 00, 001
1873	500, 294, 290	2, 850, 285	6, 159, 203	11, 155, 160	87, 953	700, 007	01, 002
1874	93, 507, 880	46, 331, 621	4, 300, 948	9, 938, 838	54, 815	700, 005	76, 002
1875	166, 420, 600	114, 558, 995	3, 962, 242	14, 315, 663	09, 025	700,005	90, 662
1870	159, 424, 500	211, 080, 189	5, 086, 676	18, 972, 053	89, 040	6,0	17,
1877	112, 530, 500	46, 223, 000	7, 724, 103	16, 059, 863	50, 024		47, 007
1878	124, 970, 080	6, 566, 800	6, 396, 000	28, 827, 000	82,048		61, 264
1879	46, 387, 060	453, 400	5, 140, 000	66, 677, 794	25, 040		54, 986
1880	27, 992, 240	4, 531, 700	5, 102, 397	17, 811, 482	00, 056		15, 268
1881 1882	15, 521, 220	<b>}- 15, 906, 400</b>	5, 036, 268	22, 238, 107 7, 787, 580	44, 051		08, 025 25, 013
1583	13, 807, 080 88, 287, 470	2, 497, 750	5, 870, 519 5, 423, 042	13, 864, 678	35, 045 07, 058		35, 017 77, 861
1884	57, 661, 740	480, 300	5, 101, 644	10, 848, 094	26, 038		45, 013
1865	8, 146, 920	2, 428, 879	5, 702, 443	8, 605, 102	02, 088		50, 022

Up to the close of 1885 the German Empire coined and withdrew from circulation coins as follows:

	Coined.	Withdrawn.	Remain.
Gold coins.  Double crowns	Marks. 1, 440, 450, 300, 00 455, 745, 800, 00 27, 969, 925, 00	Marks. 717, 120, 00 549, 590, 00 7, 995, 06	Marks. 1, 445, 738, 180, 09 455, 195, 720, 08 27, 961, 980, 00
Total gold coins	1, 930, 165, 625, 00	1, 274, 696. 00	1, 928, 890, 830, 00
Five-mark pieces Two-mark pieces One-mark pieces 50 pfennig pieces 20 pfennig pieces	71, 653, 095, 00 102, 515, 678, 00 171, 136, 108, 00 71, 486, 552, 00 85, 717, 922, 80	4, 845, 00 8, 558, 00 4, 439, 00 2, 008, 00 8, 000, 932, 00	71, 648, 250, 00 102, 510, 120, 00 171, 131, 660, 00 71, 484, 454, 00 27, 716, 990, 60
Total silver coins	452, 509, 855. 90	8, 017, 872. 00	444, 491, 483, 80

Of nickel coins (pieces of 10 and 5 pfennigs) there were coined 35,160,344.45 marks; withdrawn, 521.50 marks, leaving 35,159,822.95 marks in circulation. Of copper coins (pieces of 2 and 1 pfennigs) there were coined 9,682,671.58 marks; withdrawn, 32.99 marks, leaving 9,682,638.59 marks in circulation.

COINAGE—Continued.

	Fra	D.00.	Belg	jum.	Ita	dy.
Years.	Gold.	Legal-tender ailver.	Gold.	Legal-tender silver.	Gold.	Silver, 5-lire pieces.
	ë i dike.	France.	France.	France.	Lire.	Lire.
851	289, 700, 570	59, 327, 309		18, 539, 610	^ *75, 600	1, 828, 460
P53	27, 028, 270	71, 918, 448		23, 028, 280	£7, 500	2, 438, 410
859	812, 064, 020	20, 099, 488		4 - 4 - 4 - 4 - 4	73, 250	977, 270
654	526, 528, 200	2, 123, 887			77, 130	1, 700, 670
855	447, 427, 820	25, 500, 300			20, 600	680, 830
060		20, 000, 000				
856	508, 281, 995	64, 422, 214		*******	16, 920	470, 633
857	672, 581, 225	3, 809, 611			91, 290	270, 700
658	488, 680, 635	8, 663, 569			04, 470	203, 005
859	702, 697, 790	8, 401, 814			[1, 500	812,000
860	428, 432, 425	8, 084, 100			58, DLO	295, 270
801	98, 216, 400	2, 518, 050	*********		18, 010	863, 235
862	214, 241, 990	2, 519, 398			97, 560	964, 435
803	210, 230, 610	329, 610			25, 200	
864	273, 843, 705	7, 205, 510			72, 600	601, 935
662	161, 886, 835	485, 870	20, 522, 060	4, 580, 600	05, 190	1 4, 010, 836
868	865, 082, 923	189, 465	10, 630, 260		26, 020	2, 851, 764
867	198, 579, 510	54, 051, 560	26, 826, 140	18, 465, 720	25, 830	
868	340, 076, 685	98, 620, 550	27, 684, 980	82, 852, 920	07, 940	
869	234, 186, 190	5R, 264, 285	24, 689, 480	63, 287, 710	3, 707, 100	19, 976, 286
870	55, 304, 800	53, 648, 850	63, 824, 050	62, 340, 375	1, 095, 400	29, 845, 78
671	50, 169, 680	4, 710, 905	45, 179, 440	23, 917, 170	470, 1CO	86, 000, 103
672	00,100,000	389, 190	40, 110, 110	10, 225, 000	03, 100	25, 611, 921
873		154, 649, 045		111, 704, 795	20, 404, 149	42, 273, 93,
874	24, 319, 700	59, 996, 910	60, 927, 000	12,000,000	5, 919, 420	60, 000, 00
	234, 912, 600	75, 000, 000	00, 821, 000			50, 000, 00
873	176, 493, 180		82, 645, 660	14, 904, 705	2, 244, 440 2, 154, 580	31, 951, 71
876		52, 661, 315	41, 893, 640	10,799,425		31, 831, 714
877	255, 181, 140	16, 404, 285	118, 121, 400		4, 947, 960	22, 049, 28
872	183, 318, 100	1, 821, 420	81, 108, 000	***********	6, 345, 280	9,000,000
679	24, 610, 840		***********	**********	2, 929, 320	20, 000, 00
280	*** **** ***				2, 590, 660	
881	2, 167, 000				16, 860, 560	
682	3, 742, 900	*********	10, 446, 200		139, 523, 040	
883					4, 087, 500	
884					322, 100	
885	289, 400			1	3, 291, 680	

## The coinage of subsidiary silver in France, Belgium, and Italy was:

<b>Усата</b> .	France.	Year.	Belgium.	Years.	Italy.
1865	Fygner. 8, 736, 725 44, 031, 944 59, 706, 980 35, 824, 718 9, 911, 613 15, 402, 908 19, 167, 595 26, 449, 180 6, 733, 445 1, 159, 860	1652 1958 1658 1867 1867 1868 1869 1880 1881 1882–'85	Francs. 60, 128 393, 011 178, 050 10, 328, 000 14, 737, 000 5, 541, 392 1, 308, 608 780, 516 210, 484	1862 1868 1864 1865 1866 1867 1808 1881 1882 1883 1884	Lire. 1, 188, 800 82, 082, 874 80, 696, 251 41, 987, 107 83, 501, 071 16, 530, 146 1, 252, 452 8, 281, 588 5, 716, 412 7, 005, 420 10, 994, 580 697, 548

The total coinages of the states of the Latin Union in coins of the franc system amounted, from the beginning of 1851 to the close of 1885, to:

Countries.	Years.	Gold coins.	Silver legal- tender coins.	Sliver sub- sidiary coins.
France		Francs. 5, 242, 760, 580 2, 150, 523, 030 243, 090, 580 233, 202, 210 20, 522, 660 563, 474, 660 5, 000, 000	France. 275, 500, 181 523, 460, 880 15, 707, 915 350, 059, 820 58, 823, 290 350, 497, 720 2, 500, 000 7, 978, 250	France.  8, 736, 725 218, 888, 240 105, 850, 193 53, 981, 125 626, 189 83, 000, 000

<sup>\*</sup>In an appendix to the proceedings of the Monetary Conference of 1885, Italy is stated to have coined, from 1886 to 1885, 238,220,345 lire gold, and 859,591,300 lire silver.

#### COINAGE-Continued.

Year.	Greek	Britain.	Australia.	United	States.	Nother- lands.t
1000.	Gold.	Silver.	Gold.	Gold	Silver.	Silver.
51		£87, 868		\$62, 614, 492 <del>}</del>	97	Florina.
52				56, 846, 187	10	11,34
50				29, 277, 909	71	1,35
54	4, 152, 183	140,480		25, 915 0161	70	16, 56
55	9, 008, 66		£512,500	28,97 8	45	12, 24
56			1, 220, 000	30,69 8		7, 62
67			767,500	15, 81 3	[ 00	14,01
58	1, 231, 02		1, 343, 000	30, 25 5	] 30	31, 49
59	2, 649, 50		1, 221, 000	17, 29 7	00	15, 10
60	8, 121, 70		1,651,300	16,44 6	20	9,45
<u> </u>	8, 190, 17		1, 719, 250	60,09 7	40	10, 26
62			2, 477, 500	45,53 8	01	10, 36
63	6, 997, 213		1, 534, 750	20,69 2	93	10,64
64	9, 535, 59	5:15, 194	2, 698, 500		14	10,68
65	2, 367, 61		2, 271, 500			12, 12
66	5, 076, 676 496, 39		2, 401, 000	28, 31 5 28, 21 71	680, 261 996, 871	10, 61 12, 37
G8			2, 310, 000	18,11 5	1, 136, 750	12 13
69			1, 279, 000	21, 82 74	840, 746	12.74
70			1, 220, 000	22, 25 2	1, 767, 254	16.59
74			2, 814, 000	21, 30 5	1, 935, 905	17, 18
72			2,741,000	20.37 5	3, 029, 834	33, 54
73			2, 812, 500	85, 24 74	2, 945, 795	13, 78
74			3, 398, 000	60,44 0	5, 983, 601	31.98
75	243, 20		4, 010, 000	33, 55 5	10, 070, 368	
76			3, 767, 000	38, 17 21	19, 126, 503	
77			3, 117, 000	44,07 9	28, 549, 935	
78			8, 493, 000	82,79 0	28, 290, 825	
70			4, 153, 000	40, 98.,2	27, 227, 883	
50			4, 551, 800	56, 157, 735	27, 942, 437	
81		997, 128	3, 736, 800	78, 733, 864	27, 649, 967	
H2		209, 680	3, 843, 000	89, 413, 4471	27, 783, 389	
83		1, 274, 328	3, 268, 000	35, 938, 927	28, 835, 470	
84		5 658, 548	4,501,000	27, 932, 824	28, 774, 389	*******
83			4, 458, 000	24, 861, 1234	28, 848, 960	

<sup>\*</sup>For the United States, flecal years ending June 30.

† In regard to the coinage of gold and of subsidiary silver in the Netherlands, see the notes infra.

### The coinage of gold and silver in the United Kingdom was:

Years.	Gold.	Silver.
1851—'60	42, 896, 783	#3, 462, 119 2, 967, 940 7, 079, 490 3, 880, 802

The Bank of England has withdrawn from circulation worn silver coins as follows:

1667-770		£320,000
1871-780		1,648,000
1881-765	** \	844,000

Worn silver has also been withdrawn in other ways during this time. In Australia, the mint at Sydney began operations on May 15, 1855, and the mint at Melbourne on June 12, 1872. These are considered as branches of the Royal mint at London, and the Australian coins are always treated as British coins.

From the opening of the mints until the close of 1885 there was coined in Australia gold as follows: At Sydney, £52,460,000; at Melbourne, £29,311,100.

The tables given above include the total coinage of the silver in the United States, legal-tender dollars, trade-dollars, and subsidiary coins. The trade-dollars contain 378 grains of fine silver, and were originally intended only for use in the trade with the East; but they afterwards came into circulation within the country, and in recent years have been in the main withdrawn. The total coinage of silver may be divided as follows into the three classes of silver dollars, subsidiary coin, and trade-dollars:

Fiscal years.	Legal-tender	Subsidiary	Trade-
	silver dollars.	silver coins.	dollars.
1878	27, 933, 750 27, 637, 955 27, 772, 075 28, 111, 119	382 8, 687 12, 012 11, 314 724, 351	*\$35, 959, 360

\*1874 to 1878 inclusive.

For the Netherlands the table (on p. 62) states, for the years 1851–1870, the total coinage of silver; for 1871–1874, only the coinage of legal-tender silver. Since 1875 there has been no legal-tender coinage of silver whatever. The subsidary coins, of the denominations of 5 and 10 cents, have been coined as follows:

Years.	Florins.	Years.	Florins.	Years.	Florins.
	100, 000 100, 000	1877	100, 000 110, 000	1882	200, 000 100, 000

In addition to this there were coined for the East Indian colonies:

Years.	i-florin pieces.	¿-florin pieces.
1882	Florins. 750, <b>0</b> 00	Florins. 550, 000 200, 000
1884 1885	355, 000 82, 500	437, 506

The gold coined in the Netherlands has been as below. Excluded from the figures are the ducats and the Wilhelmd'or, which are trade coins (ducats in 1871–1885, 387,324 pieces; Wilhelmd'or in 1851–1853: 2,676 pieces double, 10,000 pieces single, and 10,000 half pieces). The coinage of legal-tender 10-gulden pieces was:

Years.	Florins.	Years.	Florins.
1875 1876 1877	15, 811, 060	1879	501,000

Of legal-tender silver there were coined, according to the provisions of the coinage law of 1839, about 461,000,000 gulden, up to the close of this coinage. It turned out later that by far the largest part of these coins, more than 300,000,000, had been exported. Of gold coins the total hitherto has been 74,984,860 gulden, of which, however, but a comparatively small part remained at the close of 1880 within the country. It is worth noting that the silver for subsidiary coins issued since 1882 has been obtained by melting down the pieces of 2½ gulden, and not by the purchase of bullion. An act of March 4, 1884, authorizes the Government, in case the gold held by the bank should become considerably reduced, to melt down 25,000,000 of legal-tender silver gulden, and by their sale to secure gold.

The coinage in Denmark, Sweden, and Norway, since the adoption of

the single gold standard, has been:

1		Gold.			Silver.	
Countries.	Till Dec. 31, 1880.	From Jan. 1, 1881, to Dec.31,1885.	Total.	Till Dec. 31, 1880.	From Jan. 1, 1881, to Dec.31,1885.	Total.
Denmark	Crowns. 84, 754, 640 38, 872, 440 13, 127, 610	Orowns. 6, 989, 175 719, 060	Crowns. 34, 754, 640 45, 861, 615 13, 846, 670	<i>Croions</i> . 18, 148, 230 12, 627, 559 4, 740, 500	Ormons. 207, 557 3, 714, 726	<i>Crowns.</i> 18, <b>3</b> 55, 787 21, 082, 785
Total	86, 754, 690	7, 708, 235	94, 462, 925	35, 516, 289	3, 922, 283	39, 438, 572

In Finland there were coined up to the close of 1885, 21,900,000 marks gold and 13,189,750 marks silver.

Coinage in Spain has been, from 1876 to the close of 1885:

	Pesetss.
Gold	921, 654, 890
Silver 5-peseta pieces	411, 643, 030
Silver subsidiary coins	185, 555, 188

In the years 1832–1885 there were coined:

Years.	Gold coins.	Silver 5-peseta pieces.	Silver subsidiary coins.
1882	Pesetas. 10, 343, 575 16, 721, 425 25, 818, 700 12, 565, 325	Pesetas. 8, 309, 680 27, 537, 295 29, 239, 095 15, 722, 240	Posotas. 46, 984, 838 15, 082, 249 5, 677, 864 3, 836, 382

Portugal coined between 1854 and the close of 1882, 6,073,002 milreis of gold and 8,817,436 subsidiary coin. Since 1882 the coinage has been:

Years.	Gold.	Copper subaid- iary coin.
1883	Milreis. 201, 000 173, 000 228, 900	Milreis. 516, 150 454, 550 466, 850

For Greece, Roumania, and Servia, foreign mints coined, on the franc system, the following amounts:

Countries.	Gold coins.	Silver 5-franc pieces.	Subsidiary silver.
Greece	France. 12, 000, 000 3, 805, 000 10, 000, 000	Francs. 15, 462, 865 47, 700, 000 1, 000, 000	Francs. 10, 800, 000 30, 500, 000 3, 500, 000

No trustworthy conclusions can be reached as to the present production of the precious metals, or as to the production in the immediate past, by adding together the coinages of the different countries. Account must be taken of the coins withdrawn by various States, such coins being generally recoined. In most countries material for silver coins has been obtained in recent times mainly by melting down older coins. For instance, Germany recoined between 1872 and 1879 about 2,200,000 kilograms of silver, and Italy recoined from 1862 to 1883 about 2,500,000 kilogram of silver. The same process took place in England between 1867 and 1885, involving nearly 3,000,000 pounds of the older English silver coins.

Coinage in Mexico and the South American States is in the main simply a means for levying a tax on the domestic production of silver; and the piasters and pesos of those countries are to be treated as merchandise.

The coinage of half-imperials in Russia is quite needless, since a depreciated paper money is in circulation, and the large annual payments of gold for interest abroad could be met as easily and as cheaply by gold bars as by half-imperials. Between 1851 and 1885 there were coined in Russia 806,000,000 of rubles in half-imperials (=967,025 kilograms gold fine). A very small proportion of this amount can have escaped being melted down in foreign countries.

Large quantities of the gold coins of other States also, coined originally for domestic use, have been melted down and recoined at foreign mints, as is abundantly proved by the records of those mints. The supply of coin within the country therefore, can be ascertained from its coinage statistics only if account be taken of the proved or probable recoinage abroad and of the probable use in the arts.

The case is different with subsidiary coins, since there can be no exportation or melting down of these.

The value of the gold and silver coined in the more important civilized countries was as follows:

BY COUNTRIES.

Countries.	Periods.	Gold.	Silver, nominal value.	Gold.	Silver.
Great Britain and Australia. United States France Belgium Italy. Netherlands Germany Austro-Hungary Russia Scandinavian countries Spain Portugal	1851-'85 1851-'85 1851-'85 1851-'85 1857-'85 1857-'85 1851-'85 1873-'85	Marks. 4, 879, 202, 000 5, 845, 132, 000 5, 988, 560, 000 473, 037, 000 885, 797, 000 131, 605, 000 1, 959, 881, 000 341, 824, 000 2, 716, 314, 000. 106, 158, 000 746, 541, 000 80, 278, 000	Marks.  360, 883, 900 1, 498, 497, 900 914, 240, 900 858, 382, 900 457, 325, 960 578, 608, 900 1, 163, 783, 900 1, 925, 784, 900 42, 594, 900 483, 731, 900 36, 372, 900	Per cent. 93. 1 78. 1 86. 7 56. 9 45. 8 18. 5 62. 7 25. 0 82. 8 71. 4 60. 7 45. 4	Per cent. 6. 21. 13. 48. 54. 81. 87. 75. 17. 28. 89. 54.
Total	1851-'85	23, 104, 429, 000	7, 506, 199, 000	75. 5	24.

#### BY PERIODS.

Periods.	Gold.	Silver, nominal value.	Gold.	Silver.
1851-'55 1856-'60 1861-'65 1866-'70 1871-'75 1876-'80	Marks.  3, 331, 106, 000 3, 587, 387, 000 3, 130, 764, 000 2, 578, 198, 000 3, 791, 344, 000 3, 888, 634, 000 2, 796, 996, 000 1, 120, 312, 000	Per cent. 87. 9 79. 5 81. 6 68. 7 73. 2 69. 1 71. 4	Per cent. 12.1 20.5 18.4 31.3 26.8 30.9 28.6	
Total	23, 104, 429, 000	7, 506, 199, 000	75.5	24.5

The preceding tables, from which the very large coinage in Mexico and British India is intentionally excluded, represent in weight of fine metal about 8,281,000 kilograms of gold and 42,000,000 kilograms of silver, whereas the total production of the precious metals in the period 1851–'85 may be estimated at 6,400,000 kilograms of gold and 57,600,000 kilograms of silver. As already stated, a considerable part of the coinage consists in the recoinage of older coins. Yet, even when this is taken into consideration, there remains no doubt that in the last thirty-four years very large parts of the gold and silver coined in civilized countries have been melted down or exported to the East, and have thereby disappeared from the monetary supply of the civilized countries.

#### ABRASION OF COINS.

The loss which the monetary supply of the precious metals suffers from the abrasion of coins is constant and inevitable. Yet it is by no means so important as was assumed in former statistical compilations. W. Jacob estimated it for gold coins at \( \frac{1}{8} \) of 1 per cent. per year; for silver coins, as high as 3 of 1 per. cent. per year; and he believed that, starting with an assumption (quite arbitrary) as to the probable supply of the precious metals at the time of the Emperor Vespasian, he could calculate the loss from that time up to the discovery of America. Careful investigations have been repeatedly made on this point in modern times, the results of which we have collected and published, and which show that the loss from abrasion is comparatively insignificant. This is particularly true at the present time, in consequence of improvements in coinage and the development of banking, more especially for those large gold coins which form the great mass of the general monetary supply of gold. Extended investigations in France and in Switzerland have shown that the average annual loss through abrasion on 20-franc pieces is about 1 per thousand; and exact weighings of large sums of German double-crowns, which had been several years in circulation, showed an annual loss of only } per thousand. That is to say, on the average thirty-five years must elapse before gold pieces lose one-half of their original standard weight. After the first years of circulation, when the coinage marks are already somewhat smoothed off, the abrasion naturally becomes less. On the other hand, smaller gold coins suffer more from abrasion, since the space which they present is comparatively larger, and they pass more. frequently from hand to hand.

The question of the abrasion of gold coins has latterly attracted much attention in England and has led to repeated careful investigations, which seem to indicate that the opinion just expressed of the slight importance of this consumption of gold must be modified. The Bank of

England, as is well known, weighs every gold coin presented to it, and cancels those under weight. The consequence is that gold coins which are nearly under weight are rarely presented to the bank, but remain in circulation indefinitely, and constantly lose more and more in weight. Mr. Jevons calculated, on the basis of actual weighings, that the annual average abrasion of the sovereigns in circulation amounted to one-third to one-fourth per thousand, while that of half sovereigns was more than one per thousand; and he concluded that a very considerable proportion of the gold coins circulating in the United Kingdom were under weight. Later investigations, especially those made by Mr. J. B. Martin in 1882, have confirmed this conclusion. It will be remembered that the chancellor of the exchequer last year openly admitted the need of a general recoinage of the smaller gold coins, and proposed, as a means of covering the expenses of the operation and of the future maintenance of the standard, the reduction of the half sovereigns to the status of subsidiary coins, making them legal tender only for sums up to £5. This proposal met with little favor, and is not likely to be carried out.

The investigations just referred to indicate that of a total circulation in the United Kingdom (exclusive of what is in the Bank of England) of about £80,000,000 sovereigns and £20,000,000 half sovereigns, about £44,000,000 sovereigns and £11,000,000 in half sovereigns have become under weight. Messrs. Jevons and Freemantle put the annual loss by abrasion at £22,000 for the sovereigns and £13,000 for the half sovereigns. The withdrawal and recoinage of the underweight pieces therefore would involve a considerable loss. It must be remembered, however, that the loss of actual gold would probably be diminished by the fact that some overweight coins were melted down at the outset by private individuals, and that a certain loss in weight of the coins is the result of clipping, and therefore causes no real diminution in the supply of gold. The comparison of the underweight coins, therefore,

with the regular standard does not represent a complete loss.

Taking all things into consideration, we believe that we may adhere to the conclusion that the annual loss by abrasion on the total monetary supply of 13 milliards of marks gold in civilized countries is certainly not more than 700 to 800 kilograms gold. The diminution of the supply of the precious metals by accidental losses may be left out of account; for it is likely to be compensated by the discovery of sums formerly concealed, of which in many cases nothing is heard, and which at all events are not considered in the statistics of the production of the metals.

The loss which silver suffers through abrasion, especially in the case of subsidiary coins, is for obvious reasons much greater than in the case of gold coins. Yet it is by no means so large as was formerly supposed. If it were set as high as 50,000 kilograms per year in civilized countries, all accidental losses included, the estimate would probably be too high rather than too low; and this sum is not 2 per cent. of the present annual production of silver.

As a proof of the great interest which is felt in England in regard to the protection of their coins from abrasion, we mention the following careful investigations which have appeared in recent years on this subject (in the Institute of Bankers in London): Our Gold Coinage, an inquiry into its present defective condition, etc., by J. Biddulph Martin, Journal of the Institute, June 1882. The Deficiency of Weight in our Gold Coinage, by R. H. Inglis Palgrave, Journal, March, 1883. Seniorage and Mint Charges, by J. B. Martin, Journal, April, 1884. The Gold Coinage, Position of Matters at the Present Time, by R. H. Inglis Palgrave, Journal, December, 1884.

### 2. CONSUMPTION OF THE PRECIOUS METALS IN THE ARTS.

The use of the precious metals as money has always been by far their most important use in civilized countries, and has been the foundation of their great value. Side by side with it, however, has continued their use for plate, for ornament, and for various purposes in the arts. transition from one use to another has been constant. Large quantities of coins and bars are continually withdrawn from use as money; and, on the other hand, gold and silver plate and ornament are frequently melted in order to be turned into money. In due course of time we shall give an approximate estimate of the present monetary supply of the civilized countries; but we shall not venture to give an estimate of the probable supply of gold and silver plate and ornament in the world at large, or in individual countries. But it is worth while to try to ascertain the annual use of gold and silver in civilized countries in the arts, including their use in the fine arts, for ornament, for plate, and in the arts at large, although it is exceedingly difficult to calculate, and ascertainable only with wide limits of error; for it is connected with points of essential importance in the question of standards. Four years ago we published a statistical investigation of this subject in an article entitled The Consumption of Gold and Silver (Jahrbücher für Nationalökonomie, new series, Vol. III). We treated the subject with all the care possible in face of the lack of materials; and the estimates then made by us have been frequently cited. We had hoped that other, more detailed, estimates would be added, but this hope remains as yet unfultilled, except in the investigations which Mr. Burchard, of the United States Mint, made in recent years on the increasing use of the precious metals in the arts in the United States. Notwithstanding the uncertainty of these estimates, recent investigations have nevertheless made it plain that this consumption of the precious metals is considerably larger than had before been supposed.

In no country have the statistics on the use of the precious metals in the arts been so carefully handled as in the United States. In the fiscal year 1878—'79 all manufacturers who could be supposed to use gold or silver for plate, jewelry, watch-cases, plating, or in chemical processes, were asked by circular letters to give information as to the extent and character of their consumption. Answers were obtained to 1,401 out of 3,506 letters, 448 answers giving the desired information. Mr. Burchard believed that from this and other sources he could estimate the annual consumption of gold at \$7,000,000 and the annual consumption of silver at \$5,000,000. In his annual report for 1883—'84 he

says:

"In order to obtain fuller information in regard to the use of the precious metals in the arts, circular letters were again sent to all persons and firms on whose part a consumption might be expected. The number of these letters was 7,969. Answers were received to 5,418 letters, from which it appeared that 2,734 persons or firms used gold to the value of \$14,500,000 (21,800 kilograms fine) and silver to the value of \$5,500,000 (132,000 kilograms fine)."

The superintendent of the assay office in New York reports that the value of the bars delivered during the fiscal year 1883 for presumable uses in the arts was, gold \$4,615,118 and silver \$5,205,996. The value of the precious metals used by manufacturers in the form of stamped United States or refinery bars was \$7,137,711 gold and \$4,551,172 silver.

This seems to indicate an increase in the consumption of gold and silver in the arts, especially in the form of United States gold coins and stamped United States or refinery bars. It seems probable that in the year 1883 \$6,000,000 gold and \$4,500,000 silver were taken from the domestic production for use in the arts.

We give below a more detailed statement of the industrial use of the precious metals in the United States for 1883, indicating both the form in which the metal was consumed and the purpose for which it was used. The tables are taken from Mr. Burchard's reports.

Statement showing the value and character of the gold and silver used in the arts and manufactures during the calendar year 1883.

[As reported by the persons and firms who had been addressed.]

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Manufactures.	Number man- ufacturing.	United States coin.	Stamped Uni- ted States or refinery bars.	Old jewelry, plate, and other old material.	Foreign coin.	Native grains, nuggets, etc.	Wire or rolled plate.	Total gold.
Watch-cases Watch-chains Dental supplies Pens Instruments Leaf Plate Spectacles Chemicals Jewelry and watch	32 14 7 14 45 51 219 41 27	\$575, 812 \$74, 997 700 14, 578 68 178, 424 879, 291 192, 400 7, 438	\$2, 976, 550 286, 884 83, 437 90, 325 792, 551 67, 928 7, 169 7, 685	\$38, 101 1, 907 8, 775 6, 100 8, 568 57, 498 5, 500 8, 830 8, 551	\$1, 508 600 5, 227 6, 816 590 1, 315 550	\$520 135, 410 2, 134 621 6, 700 8, 938 4, 987 207	\$5, 817 27, 202 27, 560 942 42, 835 66, 626 727 12, 180	\$3, 598, 308 827, 000 87, 912 145, 924 5, 199 1, 084, 824 528, 868 215, 428 81, 611
makers' supplies Jewelry and watches	11 2, 273	24, 408 3, 125, 738	13, 983 2, 861, 149	9, 123 738, 638	177, 794	1, 569 541, 306	80, 054 458, 745	79, 227 7, 905, 163
Total	2, 734	4, 875, 587	7, 137, 661	876, 641	194, 400	702, 387	672, 688	14, 459, 464

#### SILVER.

Manufactures.	United States coin.	Stamped United Etates or refinery bars.	Old jewelry, plate, and other old	Foreign coin.	Native grains, nuggets, etc.	Wire or rolled plate.	Total silver.	Total gold and silver.
Watch-cases Watch-chains Dental supplies Pens Instruments Leaf Plate Spectacles Chemicals Jewelry and watch-	\$35, 200 524 450 216 931 11 16, 856 3, 631 9	\$1,777,193 14,768 6,060 - 4,254 3,752 22,697 1,710,515 16,461 375,429	100 693 4, 107 40, 761 1, 254 35, 554	\$219 1, 655 755 300 7, 690 203 500	\$1,000 6,790 505 864 835 8,495 250 1,580	\$50 1,462 228 6,995 18,933 251,977 1,981 8,847	\$1, 845, 599 28, 544 6, 738 6, 730 13, 990 46, 883 2, 066, 294 23, 782 416, 419	\$5, 443, 907 850, 544 44, 650 152, 654 19, 189 1, 131, 707 2, 595, 163 239, 210 448, 030
makers' supplies Jewelry and watches Total	245 158, 564 216, 637	4, 806 616, 237 4, 552, 172	800 106, 745 221, 951	142, 949	1, 505 49, 733 71, 557	975 23, 992 339, 940	8, 331 1, 098, 220 5, 556, 530	87, 558 9, 003, 383 20, 015, 994

Of the persons and firms to whom circulars were addressed 2,551 sent no answer; but it does not follow from this that they made no use whatever of the precious metals. It has therefore been thought that the consumption in the arts in the United States is considerably larger than the Director of the Mint states. But, on the other hand, doubt has often been expressed whether many manufacturers might not have overstated

their consumption, in which case the computed total would exceed the actual consumption. But this doubt is officially declared to be unfounded. It is to be hoped that these inquiries will be continued, and that they will yield trustworthy information in regard to the use of gold and silver in the arts in the United States.\*

In regard to the consumption in other countries we state a few significant facts, referring for further information to the essays already

mentioned (Jahrb. f. N. O. und Stat., N. F., Vol. III, 1881).

\*We gave above the conclusion reached by the former Director of the Mint at Washington in regard to the industrial consumption of the precious metals in the United States in 1883. Since this was printed we have received from the present Director of the Mint, Mr. Kimball, a corresponding statement for the year 1885, which is to be

printed in the next annual report. Mr. Kimball writes:

"Circulars were sent to about 8,000 individuals and firms whose business led him to suppose that they were consumers of gold and silver in the industrial arts. Responses were received from 4,372 firms, of which 2,700 proved to be consumers. The value of the gold used by the 2,700 firms during the calendar year 1885 was reported as follows, namely: \$10,837,944 against \$14,500,000 reported by about the same number of firms to the Director of the Mint in 1884. Of this amount about \$2,800,000 consisted of United States coin and about \$6,000,000 of stamped United States bars. The foreign coin used amounted to \$178,000 and old jewelry to \$819,000, leaving only \$467,000 of native grains and \$559,000 of wire and rolled plate.

"The silver consumption reported by the same firms was \$3,470,000, of which \$124,910 consisted of United States coin, \$2,773,975 of United States refinery bars, \$40,000 of foreign coin, and \$219,000 of old jewelry, plate, etc., leaving only \$94,000 of

native grains, and about \$217,000 of wire and rolled plate.

"The result of this inquiry leads to the conclusion either that the consumption of gold and silver in the industrial arts has fallen off since 1883, or that there is less duplication in the returns than heretofore as between original and secondary manufacturers.

"Having the benefit of the previous lists of jewelers and others, and a recent edition of Zell's Business Directory, names were selected of persons only who had either replied heretofore or who the Director had reason to believe were engaged in the mannfacture at first hand of gold and silver materials."

Statement showing the value and character of the gold and silver used in the arts and manufactures during the calendar year 1885, as reported by the persons and firms who have been addressed.

GOLD.

Old jewelry, Stamped native grains, United States United States Manufactures. foreign coin, Total. or refinery coin.

		bars.	and other material.	
Chemicals	<b>\$</b> 32, 040	*18, 903	<b>\$10, 433</b>	<b>\$56, 376</b>
Platers	251, 741	210, 831	215, 143	677, 715
Gold pen manufactures	7, 433	34, 886	14, 136	56, 455
Gold and silver leaf	58, 150	527, 453	91,751	677, 354
Dental and surgical instruments, etc.	3, 970	149, 186	21, 630	174, 788
Spectacles and opticals	52, 557	62, 420	19, 316	134, 293
Miscellaneous	116, 604	44, 168	30, 172	190, 944
Jewelry and watches	2, 266, 577	4, 980, 458	1, 622, 841	8, 869, 876
Total	2, 789, 072	6, 023, 305	2, 025, 422	10, 837, 799
	SILV	ER.		
Chemicals	\$91	\$305, 165.	\$75, <b>83</b> 2	\$381,088
Chemicals	27, 824	1, 166, 463	198, 345	1, 392, 632
Gold pen manufactures	55	3, 191	812	4,058
Gold and silver leat.		21, 881	24, 240	46, 121
Dental and surgical instruments, etc.	4, 682	107, 717	15, 402	127, 801
Spectacles and opticals	2, 487	42, 424	4, 037	48, 948
Miscellaneous	838	5, 330	1, 855	7, 523
Jewelry and watches	90, 933	1, 121, 804	254, 505	1, 467, 242
Total	126, 910	2, 773, 975	574, 528	2, 475, 418

In Great Britain the tax returns indicate in recent years a use of no more than 24,000 ounces of gold and 800,000 ounces of silver for manufacturing purposes. But this is no indication of the total consumption in the arts, since the most important uses are not subject to taxation; for instance, for watch cases, chains, rings, buttons, clasps, gold leaf, gilding, gold wire. The same holds good of the use of silver. In the report of the parliamentary commission of 1876 it is estimated that £600,000 of silver and from £250,000 to £500,000 of gold are consumed annually, which is certainly too low an estimate. Inquiries at Birmingham, in 1881, among men of business whose judgment might be trusted, led to the conclusion that the annual consumption of gold in that place was about 300,000 ounces. An estimate putting the consumption in the arts in all forms at 20,000 kilograms gold and 90,000 kilograms silver, of which 15 and 20 per cent., respectively, come from old material melted down, will certainly not be too high. Higher estimates have been made. It is to be hoped that English statisticians may not be deterred by the impossibility of getting more than approximate statements, from inquiries as to the present use in the arts in the United Kingdom.

In regard to France the following estimates were laid before the In-

ternational Monetary Conference of 1881:

The annual consumption of gold by goldsmiths and jewelers was put at 14,000 kilograms (average .740 fine), or 35,600,000 francs. A considerable part escapes taxation  $(\frac{1}{3}, \frac{1}{4}, \frac{1}{8})$ , say  $\frac{1}{6}$ ), 2,800 kilograms, or 7,100,000 francs. Manufacture of medals (.916 fine) consumes 100 kilograms, or 314,000 francs. Total, 16,900 kilograms, or 43,014,000 francs.

The gold used at Paris by refineries for certain kinds of gilding amounted, on the average, for the years from 1872 to 1880, to 684 kilo-

grams fine.

If we add to these sums the quantities of gold which are used in other forms, for instance, for gold leaf, gold wire, and smaller articles not subject to taxation, in regard to which we have no data, we shall find that our earlier estimate of an annual use in the arts in France of 21,000 kilograms gold and 100,000 kilograms silver (of which 20 and 25 per cent., respectively, came from old materials) was not too high.

The gold and silver articles declared for taxation by the Bureaux de

Garantie were as follows:

Periods and years.	Gold articles.	Silver articles.	Periods and years.	Gold articles.	Silver articles.
1861-'70 1871-'75 1876 1877 1878	11, 099 10, 708 11, 635 11, 191	Kilograms. 66, 225 64, 478 72, 054 76, 398 76, 385 73, 795	1880	14, 534 14, 264 12, 771 10, 750	Kilograms. 75, 508 82, 091 82, 201 82, 235 75, 282 74, 466

Probably an addition of 20 per cent. at least must be made for articles exported or not declared.

A statement kindly furnished by the Department of Coins and Medals in March, 1886, says that the gold and silver annually used in France in the arts amounts to 15,500 kilograms gold and 145,500 kilograms silver.

For medals there were used, in the five years 1880 to 1884, on the average, 106 kilograms gold and 2,520 kilograms silver annually,

For Switzerland we refer to the following statements made by the Swiss delegates to the International Monetary Conference of 1881. In Geneva the largest refining establishment of the place had delivered 7,573 kilograms of gold of various degrees of fineness in 1880, 7,000 kilograms being for Swiss use. But it had used about 3,000 kilograms of old gold derived from Switzerland. The remaining refining establishments of Geneva had delivered about 3,000 kilograms gold. On the whole, it was supposed that between 7,000 and 8,000 kilograms gold (over and above remelted material) were annually used in Geneva, having a value of 21,000,000 francs. Add about 6,000,000 francs for gold melted by the manufacturers themselves, and we have a consumption of 27,000,000 francs in Geneva alone. The consumption at Neufchâtel might be put at 15,000,000 or 16,000,000 francs, of which, however, about 2,000,000 francs came from Geneva and should be deducted. For the whole of Switzerland the annual use in the arts might be put at about 40,000,000 francs, or 11,600 kilograms fine gold. This estimate agrees, on the whole, with our own estimate, made five years ago, which put the annual consumption of gold in the industries of Switzerland at 15,000 kilograms gross, or, after deduction made for remelting, at 11,250 kilograms net.

An independent estimate has been sent us which arrives at the use

of gold in Switzerland for the year 1884 as follows:

rigott.A	ims duc.
Net deliveries by the refineries of Geneva	6,000
Gold pieces melted in factories at Geneva	600
Consumption at Neuenburg	3, 400
Estimate for the Jura district, the canton of Berne, and the rest of Switzer-	-
land	1, 200
Total	11, 200

This estimate agrees upon the whole with the preceding. It should be mentioned, however, that more recent estimates received by us indicate that the industrial consumption of gold in Switzerland has become considerably smaller in the last three years.

The use of the precious metals in the arts in Germany is considerable. A large part of it appears in an export of articles of gold and silver, and especially of manufactures of various kinds containing gold.

We were informed that no exact statement could be given of the consumption of the precious metals by the jewelers and goldsmiths in the district of Pforzheim. In former times the number of workmen employed was a good indication of the quantity of metal consumed, but the extension of the industry of the district to finer articles and to plated ware has caused the number of workmen to be no longer a safe indication. Estimates from persons who are in a position to judge put the average annual consumption at Pforzheim during the years 1876-'80 at about 3,500 kilograms fine gold, and at the same quantity of silver. An estimate for subsequent years has been sent us, and is as follows:

		Fine gold. Fine silver.				
Years.	Kilograms.	Per kilo- gram.	Total.	Kilograms.	Per kilo- gram.	Total.
1881	4, 000 4, 000 4, 000 3, 000	Marks. 2, 820 2, 820 2, 820 2, 820 2, 810	Marks, 11, 280, 000 11, 280, 000 11, 280, 000 8, 430, 000	5, 000 6, 000 7, 000 7, 000	Marks. 155 155 155 156 150	Marks. 775, 000 930, 000 1, 085, 000 1, 050, 090

This material was obtained partly from refineries of Pforzheim and other places, and partly by melting all sorts of coins, among them many 20-mark pieces.

The increase in the use of silver in recent years is to be explained by the larger production of silver and of plated articles, while the decrease in the use of gold results from the fact that 13½-karat articles are used less than formerly, and 8 and 18 karat articles are used more.

A statement received from the Board of Trade of Pforzheim for the year 1885, says:

The export of manufactures of the precious metals decreased in 1885. The export of ornamental silver articles has shown a noticeable decline, which may be explained partly by a change in fashion, partly also by the overproduction in England, which floods foreign markets and causes English articles to be sold almost at cost. The estimate of 7,000 kilograms silver for 1884 can, therefore, no longer be retained; the quantity for 1885 does not exceed 5,000 kilograms. On the other hand, the estimate as to gold may stand. Although the year 1885 was less active than the preceding year in the production of gold articles, yet the estimate of 3,000 kilograms was a very conservative one; and moreover, the recent demand for handsome solid articles with genuine stones and 18-carat setting has been large.

The annual consumption at Hanau and neighborhood was estimated four years ago at about 3,200 kilograms gold (9,000,000 marks) and 1,400 kilograms silver (224,000 marks.) For the years 1881-84 the consumption of gold fell to 2,900 kilograms, while that of silver rose. The gold consisted almost exclusively of German and foreign gold coins, only 10 per cent. coming from gold bars; while silver is used exclusively in the form of pure metal. A recent communication says:

Since gold jewelry is made almost exclusively from gold coins, there are no means of calculating with exactness the consumption of gold from year to year. We believe that in 1855 this consumption has again decreased about 10 per cent. as compared with preceding years. The export of gold articles to the United States ceased entirely after the increase in the import duty in that country.

For the gold and silver factories of Gmünd and Schorndorf, and in the district of Stuttgart, the annual consumption was estimated a few years ago at about 1,100 kilograms gold and 6,500 kilograms silver. No essential change seems to have taken place since then. The old gold remelted in this district is inconsiderable.

The gold and silver factories of Berlin seem to have consumed annually about 500 kilograms gold and 12,500 kilograms silver in recent years. In 1885 the consumption diminished somewhat. A considerable change has taken place during the last six years in the production of gold ornaments in the large European cities. Large massive jewels are no longer in demand, but diamonds, pearls, and especially rubies and sapphires, in light gold settings, are sought for. This change in fashion must have led to a decrease in the consumption of gold. Diamonds are set in silver more than in gold. The sale of jewelry has increased largely, but that of more expensive articles of silver has diminished. The latter circumstance is the result of the fashion of decorating tables with artistic articles in bronze. Moreover, the improvements in the production of plated ware and the greater attention paid to modeling and chiseling, which causes plated ware to be not unfrequently of higher artistic merit than solid ware, has led to a decrease in the use of silver.

The gold factories of Bremen and Hamburg inform us that their annual consumption of gold is about 64 kilograms. Over and above this we are informed that the present consumption of gold and silver in Hamburg is about 40 kilograms gold and 3,000 kilograms silver. Of the gold, about 10 kilograms come from the refinery, 15 kilograms from

coins melted down, and 15 kilograms from the remelting of gold articles. Of the silver, about 2,000 kilograms comes from the refinery and

1,000 kilograms from remelting old silver.

The silver factories at Heilbronn used annually, from 1881 to 1883, 9,030 kilograms silver, and in the year 1884 alone 12,300 kilograms silver. Only 400 kilograms came from old silver remelted. The consumption of gold is no more than 15 kilograms per year. In 1885 one large factory in this place consumed 10,700 kilograms silver, in value 1,675,000 marks, and shipped abroad 700,000 marks' worth. Two silver factories at Bremen consumed:

Δ	mokisms me
	silver.
1881	10, 320
1882	10.380
1882	11 294
1884	11 000
1885	
1000	12,011

The use of silver in the arts is here increasing gradually. The old silver remelted amounted to no more than 300 to 430 kilograms annually. The production of silver forks and spoons has been increasing

from year to year.

The production of gold leaf and gold wire forms an important part of the use of the precious metals in the arts. The chief seat of this manufacture is Nürnberg and the neighboring country. The annual consumption of the establishments in that region for the years from 1881 to 1884 may be set between 1,100 and 1,250 kilograms fine gold and 10,-500 to 12,000 kilograms fine silver. Fine gold is used almost exclusively, and is obtained from the refineries of Frankfurt and Hamburg. About 80 per cent. of the gold is used for gold leaf and 20 per cent. for wire and for colors on china. In 1885 an approximate estimate puts the gold for gold beating at about 1,000 kilograms and that for wire and gold lace at 100 kilograms, while the consumption of silver was 7,000 kilograms. In this estimate, however, the metal bought from outside concerns is not included. Next to Nürnberg, Dresden produces gold leaf in greatest quantity. In each of the two years 1882 and 1883, seven establishments at Dresden used about 1,600 ducats per week, which would make 280 kilograms of fine gold per year.

The production of gold leaf has not increased in recent times—a circumstance attributable to the increase in the production of imitation

gold leaf.

The statistics of occupations in the German Empire, according to the enumeration of June 5, 1882, have a class entitled "Manufacturers of the precious metals (goldsmiths, jewelers, gold and silver beaters, gold lace makers, mints)." In these occupations there were employed in the German Empire:

	Total.	In the principal seats of the industry.
Employers and superintendents	5, 821 730 588 22, 960	2, 078 581 429 17, 005
Total	30, 079	20, 093

The estimates presented above indicated that, in the principal seats of the industry, where the consumption takes place chiefly in factories

and in large quantities, the consumption in recent times amounted to 11,000 kilograms, fine gold per year. This does not include the consumption for other industrial purposes in these same districts, for instance, at Nürnberg. We may assume that, for those whom the census states to be employed elsewhere, about 5,500 kilograms gold should be added. This would bring the probable total use of gold in the arts in Germany to about 16,500 kilograms. But this estimate seems too high. It is true that the factories of gold and silver articles at Munich, Hamburg, Breslau. Liegnitz, Idar, and elsewhere, use appreciable quantities of gold and silver, and every establishment must consume something, be it ever so little; yet, taking one thing and another into account, this accessory consumption of gold, as it may be called, can be set at 2,000 to 2,500 kilograms gold. This estimate we made in earlier publications. On the other hand, a consumption of more than 1,000 kilograms must be added for various preparations used in gilding (for porcelain, picture frames, wall paper, etc.); this being over and above the pure gold leaf already taken into account. Comparatively little silverware has been used in the last twenty-five years in the retail shops. The articles sold in them, such as spoons, forks, chains, thimbles, boxes, are generally obtained from the large factories at Heilbronn, Dresden, and elsewhere.

All told, we may estimate the consumption of gold and silver in the arts in Germany at about 15,000 kilograms gold fine, and 110,000 kilograms silver fine. Of the silver about 12,000 kilograms is consumed in making oxide of silver, used mainly by photographers.

To separate out of this total quantity the proportion which comes, not from coins melted down or from fresh bars, but from the remelting of old metal, is a task to be solved with great difficulty and caution. We must consider not only the gold and silver articles melted down by the manufacturers, but also those used in the refineries from which they buy their fine gold and fine silver; although, as detailed reports from these establishments show, this latter quantity is not considerable.

The consumption of gold and silver in the arts in Germany exceeds considerably the domestic sale of manufactures of these metals; for there is a large and regular export. For our present purposes this export need not be considered, except in so far that we must not count it as part of the consumption of the precious metals in the countries to which it goes.

We have paid no attention so far to that important branch of industry which consists in refining gold and silver, since the product of the refining goes to establishments, either domestic or foreign, which have already been considered. Nevertheless it may be of interest to present some facts as to the refineries of Germany. These may serve, moreover, to show that our estimates of the consumption in the arts are not too high.

The larger refining establishments are the Gold and Silver Refinery at Frankfurt a. M.; The North German Refining Company, of Hamburg; and the firm of Sachs and Edinger at Berlin. In addition there are refining works at the mints at Munich and Stuttgart, while several smelting works produce refined gold and silver.

The Frankfurt concern produced in the last four years—

Years.	Gold, fine.	Silver, fine.	Years.	Gold, fine.	Silver, fine.
1882 1883	Kilograms. 4, 568 5, 658	Kilograms. 181, 260 211, 590	1884 1885	5, 176	Kilograms. 231, 916 257, 410

Included in these totals is the quantity of gold and silver converted in this establishment into gilding fluids, oxide of silver, etc.; this quantity was approximately—

Years.	Gold.	Silver.	Years.	Gold.	Silver.
1881	Kilograms. 120 200 270	Kilograms. 6, 500 7, 200 8, 100	1884 1885	Kilograene. 820 370	Kilograms. 9, 400 10, 000

The gold refined by this establishment is derived chiefly from old scraps and in very small proportion from fresh bars. A great deal of material comes from Switzerland and Italy, and returns to those countries after refinement. Of the 5,777 kilograms gold refined in 1885, about 3,500 were perhaps used in Germany, and the rest sent to Russia, Italy, and Switzerland.

Of the 257,000 kilograms silver, 90,000 may have remained at home, 60,000 kilograms were sent to Russia, Italy, and Switzerland, while the remainder was sent partly to France, but mainly to India. The other two concerns mentioned above produced annually for the years 1882–1884 about 2,400 kilograms gold, fine, 93,000 kilograms silver, fine.

The refined gold and silver which these establishments bring into trade is chiefly used at once in the arts, and its extent, therefore, would alone indicate the extraordinary amount consumed in this way, even if we had no other information. A considerable part of the fine gold and fine silver produced by them goes abroad.

The statistics of the foreign trade of Germany give the following statements as to the import and export of uncoined gold and silver, and of articles made from those metals:

Years.	Gold bars and bullion.	Silver bars and bullion.	Articles made in whole or in part of precious metal.
Imports	Marks. 3, 828, 000 15, 077, 000	Marks. 5, 161, 000 19, 425, 000 14, 264, 000	Marks. 7, 978, 000 48, 450, 000 40, 472, 000
1884. Imports	7, 380, 000	4, 947, 000	8, 642, 000
	11, 724, 000	30, 889, 000	44, 870, 000
Excess of exports	4, 344, 000	25, 942, 000	36, 228, 000
	7, 951, 000	2, 131, 000	8, 965, 000
Exports	12, 102, 000	27, 216, 000	43, 855, 000
	4, 151, 000	25, 085, 000	34, 890, 000

The use of the precious metals in the arts in Austro-Hungary was stated at the International Monetary Conference of 1881 to average, for the years 1867–1880, 1,455 kilograms, gold, fine, and 25,346 kilograms silver, fine.

Precious metals were stamped officially as follows:

Years.	Gold articles.	Silver articles.	Years.	Gold articles.	Silver articles.
1881 1882 1883	2, 8 <b>09</b> 3, 647	Kilograms. 31, 801 34, 701 36, 786	1884 1885	Kilograms. 3, 404 3, 180	Kilograms. 35, 512 81, 7 <b>9</b> 3

The actual consumption is considerably larger, as is indicated, indeed, by the large declared export of gold and silver articles. There is also some consumption for gold and silver lace.

In the Netherlands domestic products of gold and silver were stamped as follows:

• Years.	Gold.	Silver.	Years.	Gold.	Silver.
1881 1882	Kilograms. 1, 289. 2 1, 226. 1	Kilograms. 9, 255. 8 8, 896. 9	1883 1884	Kilograms. 1, 149. 0 1, 114. 7	Kilograms. 8, 364. 0 8, 187. 2

In Belgium the stamping of gold and silver articles has been optional since July 1, 1869. In 1868 there were stamped gold articles containing 398.04 kilograms, and silver articles containing 3,651.4 kilograms.

An estimate of the industrial consumption for the Netherlands and Belgium together of 3,200 kilograms gold and 24,000 kilograms silver would probably be too high rather than too low.

According to the statements made by delegates at the International Monetary Conference of 1881, the average annual consumption of the precious metals during the eleven years 1870–'80, in Norway and Sweden, was—

	Gold.	Silver.
Norway	Kilograme.	Kilograms. 1, 694 2, 540
Sweden	248	2, 540

In Russia there were stamped in 1884 the following quantities of domestic and foreign articles: Of gold, 187 pud 38 solotnik, etc. = 2,079 kilograms; of silver, 3.475 pud 35 solotnik, etc., = 56,935 kilograms.

In earlier publications we ventured to make a general statement, with all possible reservations as to error, of the probable consumption of the precious metals in the arts in civilized countries on the average of recent years. We again present such a statement here, having heard of no well-founded objections to it. Surprising as the enormous extent of the estimated annual consumption of gold for ornaments and other purposes in the arts may seem, any doubts as to the probable correctness of the estimate will disappear on consideration of the increasing use of

gold for ornament and for industrial purposes, with the growth of population and wealth. A similar increase is unfortunately not to be observed in the industrial use of silver:

		Gold.		Silver.		
Countries.	Gross consumption.	Deduct for old material.	Net consumption.	Gross con- sumption.	Dednot for old material.	Not con- samption.
	Kilograme.	Per cent.	Kilograms.	Kilograms.	Per cent.	Kilograms.
United States	21, 700	10	19, 500	135, 000	15	115, 000
Great Britain	20, 000	15	17,000	90,000	20	72, 000
France	21,000	20	16, 800	100, 000	· 25	75, 000
Germany	15, 000	20	12,000	110,000	25	82, 900
Switzerland	15,000	30	10, 500	32, 000	25	24, 000
Netherlands and Belgium	3, 200	20	2, 900	30,000	20	24, 600
Austro-Hungary	2, 800	. 15	2, 400	40,000	20	82, 000
Italy	6,000	25	4, 500	25, 000	25	19, 000
Russia	8,000	20	2, 400	40, 000	20	32, 000
Other civilized countries	2, 300		2, 000	50, 000	20	40, 000
Total	110,000	**********	90, 000	652, 000	•••••	515, 000

Mr. Giffen, in his essay entitled Gold Supply: the Rate of Discount and Prices (Essays in Finance, second series, p. 46), says:

The demand for gold for use in the arts is put by Dr. Soetbeer at nearly £10.-000,000, but which is not half that amount, as far as I can judge, if we exclude what is taken for the arts out of the coinage of different countries, and which will be counted among the coinage requirements. Let the estimate for this purpose be £5,000,000.

This passage indicates a misconception that should be removed. Doubt may exist whether our estimate of the annual net consumption of gold in the arts at 90,000 kilograms be too high or too low; but it is certain that it is immaterial for the problem of prices and of standards of value whether newly produced and uncoined gold, or gold coin melted down, is used for these purposes. The increment to the monetary supply of gold from the annual gold production is only that sum by which the product exceeds the use in the arts, the export to the East, and any loss from accident. The quantity coined, as such, is not to be considered, since a large proportion of newly-coined gold pieces (such as the Russian half imperials) are at once melted and never get into circulation. If in any year gold is produced to the amount of 400,000,000 marks, and if in the same year 320,000,000 are consumed in the arts, exported to the East, or lost by abrasion, then no more than 80,000,000 marks remain for the increase of the monetary gold supply; and it is immaterial whether 30, or 50, or 70 per cent. of the gold used in the arts comes from melted coins, old or new. We are inclined to agree that half, or perhaps more, of the gold used in the arts (after deducting the gold articles remelted) is obtained by melting coins; but this is of no importance so far as the monetary gold supply and the level of prices are concerned. We have added this note because of the great importance of the manner and extent of the use of gold in the arts.

# 3. THE FLOW OF GOLD FROM CIVILIZED COUNTRIES.

Even if a higher estimate were put on the industrial consumption of the precious metals and on the loss by abrasion and accident, it would still be necessary to consider another factor affecting the proportion of newly-produced gold which remains available for the monetary supply of the civilized countries.

The great diminution, during the invasions of the Germanic tribes and during the centuries following those invasions, in the supply of gold and silver gathered in the Roman empire—a diminution which certainly set in to a striking extent—presents in itself difficult problems. But apart from this, it is no easy task to explain the disappearance from circulation of a considerable part of the enormous quantities of gold and silver which reached Europe from America in the second half of the sixteenth century and in the seventeenth century. We believe that the explanation is to be found mainly in the secreting and burying of coin during the periods of war and insecurity which lasted so long in many countries, especially in Germany, France, the Netherlands, the countries on the Danube, etc. Money at that time was the most important form of movable wealth, and the endeavor of its owners was, naturally, to save it from plunder by burying it. Our public prints have frequent notices of the discovery of larger or smaller sums of money, especially of Reichsthaler, which had obviously been buried in the times of the religious wars. Many such discoveries of coin must be kept secret; while the points at which such hoards are found form an insignificant part of the total area in which they may be hid. Many millions of marks of money may have been withdrawn forever from circulation in this way.

Since the close of the seventeenth century the burying of money has practically come to an end in Europe. In the countries on the lower Danube and in Turkey it has lasted, however, to our own times, as is

proved, indeed, by the continued coinage of (Austrian) ducats.

But if the disappearance of money in civilized countries by its being buried may be fairly considered to be no longer of practical importance, the regular export of the precious metals to the East, on the other hand, has become in modern times of the highest importance. The flow of the metals to the East, it is true, has always been uninterruptedly affecting the monetary condition of the West; but in the last three centuries it has become an unusually important factor.

The East Indies have been the chief absorber of the precious metals from the civilized countries, and must therefore be specially considered

in our discussion of this question.

Balance of trade of British India in the fifty years, 1835-'36 to 1884-'85."

Amount of council bills sold.

		-
	!	Bupacs.
£1, 915, 957	23, 100	*****
2, 055, 971	22, 850	
2, 505, 773	22.000	
3, 370, 728	22, 900	
902, 523	24.325	*************
797		
1, 193, 728	23, 867	
6, 64 776	23, 920	
8.97 21	23, 907	
6.78 .73	23, 876	***********
6.94 10	23 835	
5,06 80	23, 064	
4, 13 85	23, 190	6, 025, 000
8.76 41	23, 197	13, 708, 000
6,9: 22	23, 267	25, 996, 000
6,44 09	22, 493	11, 678, 000
10,21 39	23, 126	16, 285, 000
13,93 95	22, 754	21, 846, 000
13, 28 178	22, 251	35, 532, 000
10, 84 (14	22, 156	42, 496, 100
12, 35 (13	21, 625	42, 706, 000
12.60 '99	20.508	28, 003, 000
10, 13 ,55	20, 791	47, 911, 000
13.94 65	19.794	43, 819, 000
15, 26 :10	19,961	130, 952, 000
15, 22 777	19. 956	92, 972, 000
18, 41   129	19.695	39, 520, 600
25, 12 21	19, 525	46, 651, 000
17,59 105	19, 538	40, 201, 000
18, 75 100	19.308	167, 324, 000
. ,	-	

<sup>\*</sup>Fiscal years are from April 1 to March 30, but before 1867 from April 30 to May 3. Between 1835-'36 and 1855-'56 averages for five-year periods are given. The figures are taken from the official statements made by the Indian Office to Mr. Palgrave for his Memorandum in the third report of the Royal Commission on the depression of trade, 1866.

† Estimate.

Import and export of the precious metals, and other statistics for British India, in the fifty years 1835-'36 to 1884-'85.

### \* Ratimated.

Nors.—In 1878-'79 the export of gold from India, by way of exception, exceeded the imports by the sum of £896, 173.

In the Indian circular of J. Westwood Thompson, of January 1888, the expect of precious metals to the East during the thirty-two calendar years from 1863 to 1885 is given as follows:

	Gold.	Silver.
From England by Peninsular and Oriental Steam Navigation Company attemptes  Prom Mediterranean ports by Peninsular and Oriental steamers and by the Messagence Maritimes	£43, 812, 914	<b>£309</b> , 515, <b>30</b> 8
the Messagerice Maritimes	48, 167, 090	68, 932, 856
Total	91, 480, 004	278, 448, 224

In the calendar year 1885, council bills and telegraphic transfers amounted to 14, 27, 39, 113 rupees, yielding £11, 103, 031. The total of council bills from 1861-'62 to 1884-'85, was 2, 85, 74, 40, 033 rupees, yielding £252, 421, 911.

During the eleven years from 1874 to 1884, the Indian government spent on productive public works, mainly railways, the following sums:

Year.	Alsount.	Year.	Amount.	Year.	Amount.
1874 1875 1876 1877	6, 981, 551 6, 258, 897	1878 1879 1880	#7, 198, 677 7, 198, 199 7, 773, 425 9, 499, 598	1882 1883 1884	£9, 306, 236 10, 312, 086 10, 522, 023

NOTES TO THE TABLES ON THE BALANCE OF TRADE, AND THE MOVE-MENT OF THE PRECIOUS METALS IN BRITISH INDIA, 1836–1885.\*

The preceding tables take account of factors of essential importance for the silver question, and the present and future of the question of standards. Many of those in whose hands the present publication will come will understand without further aid the importance and connection of these long columns, but for most readers a detailed consideration may not be superfluous. What follows rests in the main on our

earlier publications.

British India, inclusive of the native states, had, by the census of 1881, an area of 1,378,044 square miles. It had a population of 253,982,595, of whom 198,790,853 were directly under British rule on 868,314 square miles of territory. (Ceylon and the Straits Settlements are not included.) When we consider the economic condition and history of India, this enormous population must always be kept in mind. India is on the whole a fertile country, and produces much more than is consumed within its limits; but the domestic production of the precious metals is insignificant. As far back as our knowledge goes, the export of commodities from India has considerably exceeded the import into the country, and the consequence has been an almost continuous inflow of the precious metals. India has, therefore, in a higher degree than almost any other country a so-called favorable balance of trade. Pliny, who died 79 A. D., complains that India absorbed from the Roman empire no less than 5,000,000 sesterces per year—that is, no less than 10,800,000 marks. In a book of travels published in 1699, by a Frenchman, Bernier, who lived for some time at the court of Delhi, and made a report on the commercial relations of India to Colbert, the great French statesman, it is said: "The gold and silver of the world, after circulating for some time, finally flow to India, as into an abyss from which there is no return." Alexander von Humboldt calculated the flow of silver to India and the rest of Eastern Asia at about 25,000,000 piasters annually at the close of the eighteenth century. Humboldt's estimate seems too high, when compared to the recorded shipments by the English and Dutch East India Companies. But this is hardly the case with the calculation of Mr. Van den Berg, who concludes that for the whole of the eighteenth century the average annual export of silver from Europe to Eastern Asia was about 23,000,000 marks. We believe, however, that this last estimate is too low. It should be noted that during the seventeenth and eighteenth centuries considerable sums of gold, whose value was then considerably lower as compared to silver, were exported from Eastern Asia to Europe.

During the first half of the present century the flow of precious metals to India has gone through several phases. During the years from 1801 to 1813 the precious metals imported into Calcutta, Bombay, and Madras amounted to about 40,000,000 marks per year; and during the period immediately following the abolition of the East India Company's monopoly it rose to about 90,000,000 marks per year. Thereafter a great decrease set in for a series of years, and about 1832 the net import of the precious metals into India became for a while practically nothing. Then for the years from 1834 to 1850 it maintained itself with no great

<sup>\*</sup>In the following notes the fiscal years of India are indicated by that year in which the fiscal year ends—that is to say, instead of 1835—36 the simple figure 1836 is used. Where calendar years are in question this is expressly stated. R signifies rupees.

variations at about 50,000,000 marks yearly, at a time when the total production of silver was from 110,000,000 to 140,000,000 marks.

Since 1851 the balance of trade in Índia, and the export and import of commodities, have been, for longer periods, as follows:

Years.	Export of merchandise.	Imports of merchandise.	Excess of exports.
1851-'60 1861-'70 1871-'80 1881-'85	597, 600, 000	Rupees. 147, 200, 000 287, 000, 000 365, 300, 000 530, 600, 000	Rupess. 83, 200, 000 227, 600, 000 232, 300, 000 292, 300, 000

It thus appears from the official statistics that the excess of exports of merchandise from British India amounted, in the thirty-five years from 1851 to 1885, to the colossal sum of 6,893,000,000 rupees.

The export and import of commodities and the excess of exports show a considerable growth in these thirty-five years, as appears in the following statement by per cents:

Years.	Exports.	Imports.	Excess of exports.
1861-'60.	100. 0	100. 0	100. 0
1861-'70.	222. 3	195. 0	278. 3
1871-'80.	259. 4	248. 2	279. 2
1881-'85.	257. 2	860. 5	851. 8

By value, the average exports of merchandise during the years 1881–785 exceeded the average exports during the years 1851–760 by no less a sum than 209,100,000 rupees.

These statements refer only to the trade by sea. The statistics in regard to the overland trade of British India are exceedingly incomplete.

The following table in regard to some of the more important articles of India's foreign trade indicates which were the chief factors in this extraordinary increase of trade:

Exports from British India.

Artioles.	1869-'74, average.	1885.	
Cotton yarn Cotton goods Indigo Rice Wheat Hides and skins Jute, raw Jute, manufactured Seeds containing oils Sugar Tea	Rupees. 174, 100, 000 1, 400, 000 12, 300, 000 84, 100, 000 46, 200, 000 2, 700, 000 23, 600, 000 2, 200, 000 24, 900, 000 3, 600, 000 14, 100, 000	Rupees. 133, 000, 000 25, 100, 000 20, 400, 000 40, 700, 000 63, 100, 000 49, 400, 000 15, 400, 000 17, 500, 000 7, 900, 000 41, 400, 000	
Total	871, 700, 000	622, 400, 000	

Imports into British India.

Articles.	1869-'74, average.	1885.
Coal Cotton yarn Cotton goods Machinery Metal manufactures Oil Silk goods Railroad supplies Sugar Woolen goods	Rupees. 5, 500, 000 27, 500, 000 147, 700, 000 5, 900, 000 24, 400, 000 500, 000 4, 800, 000 9, 100, 000 6, 000, 000 5, 200, 000	Rupess. 12, 900, 000 38, 600, 000 207, 100, 000 15, 700, 000 49, 800, 000 12, 300, 000 21, 300, 000 21, 400, 000 10, 900, 000

We turn now from the statistics of commodities to those of the export and import of the precious metals. In the general tables printed above we have confined ourselves, so far as gold is concerned, to the net import, that is to say, the import after deducting the export; since the export of gold from India, barring exceptional circumstances such as occurred in 1879, is unimportant. The export of gold on the average of the fifty years from 1836 to 1885 was not quite 7 per cent. of the import of gold during the same time; that is, there were only 91,900,000 rupees exported, against 1,370,800,000 rupees imported. So far as silver is concerned, there-export is more important. In the last fifty years 553,700,000 rupees were exported, as against 3,191,800,000 rupees inported. But this re-export of a considerable portion of the imported silver takes place in the main to other countries of eastern Asia, and very little of it finds its way back into international trade.

In the thirty-five years from 1851 to 1885 the import and export of the precious metals in British India showed the following annual averages in the periods mentioned:

		Gold.		Silver.		
Years.	Imports.	Exports.	Excess of imports.	Imports.	Exports.	Excess of imports.
1851-'60	Rupecs. 22, 036, 000 61, 712, 000 21, 089, 000 47, 742, 000	Rupess. 559, 000 1, 781, 000 6, 367, 000 613, 000	Rupees. 21, 477, 000 59, 931, 000 14, 722, 000 47, 129, 000	Rupees. 70, 240, 000 109, 432, 000 67, 224, 000 73, 818, 000	Rupees. 8, 955, 000 12, 445, 000 16, 626, 000 12, 513, 000	Rupees. 61, 265, 000 96, 987, 000 50, 598, 000 60, 805, 000

There is no tax on the export and import of the precious metals in British India, and the trade concentrates itself in the main in a few ports; the correctness of these important statements, therefore, may be assumed.

To assure sound conclusions it is necessary to take account of the places from which India imports her precious metals, since a considerable part of the import comes from China and is derived from the production in that country, which we have not considered in our statistics of the production of the precious metals.

Imports of gold and silver into British India from the countries named.

	. Gold.			Silver.				
Years.	England.	Australia.	Chius.	Other countries.	England.	China.	Other countries.	Total.
1880 1881 1882 1883 1884	13, 285, 000	2, 912, 000 13, 219, 000 14, 257, 000	11, <b>679</b> , 000 13, <b>605</b> , 000	7, 844, 000 10, 593, 000 11, 083, 000 8, 599, 000	28, 646, 000	1, 606, 000 15, 125, 000 12, 658, 000 5, 529, 000	Rupees. 20, 673, 000 22, 910, 000 11, 859, 000 27, 017, 000 13, 977, 000 13, 001, 000	Rupees. 96, 050, 000 53, 162, 000 64, 664, 000 83, 580, 000 74, 085, 000 91, 100, 000

The re-export of silver from British India takes place mainly to Mauritius, Ceylon, the Straits Settlements, and the Persian Gulf.

What use has been made of the enormous sums of gold and silver that remain in India?

Of the import of gold, a very small part has been coined into domestic gold coin. The total coinage for the fifty years since 1835 amounts to no more than 2,352,399 rupees; the rest of the gold, about 1,276,000,000 rupees, has been used for ornament, or has been hoarded, in the form of British and Australian sovereigns, by the richer natives and in the treasuries of Indian princes. The gold that once has flowed to India is lost, almost without exception, to trade. The natives are careful watchers of the bullion market, and have not failed to note that in recent times the value of silver at the bazars has become less as compared to gold. Ornaments and hoards of silver are therefore less highly prized then in former years. In India, as elsewhere, gold is taking the place of silver.

Of the silver imported to India the great mass has been coined into rupees. A considerable part of this is still in circulation, in the Government treasuries, or in the banks; the rest has been converted, either directly or by smelting down rupees, into articles of ornament.

As the totals show, the net import of silver into British India for the period from 1836 to 1885 has reached the enormous sum of 2,638,100,000 rupees. The coinage of silver has reached the sum of 2,992,800,000 rupees, of which 242,300,000 rupees were got by resmelting older Indian coins.

It has been supposed that the amount of silver now in circulation in India, inclusive of the sum of nearly 222,000,000 rupees in Government treasures and in banks, may be stated at about 2,000,000,000 rupees. We believe that this estimate is much too high. The many continued assurances sent to us in regard to the extraordinary extent to which silver is used for ornament and is hoarded, lead us to consider it highly improbable that no more than 24 per cent. of the imported silver has disappeared in this way. The childlike habit of hoarding and of burying coin, which resulted very naturally from insecurity of former times, maintains itself to our own day in many parts of the Indian continent, and has maintained itself obstinately in face of all the influences of civilization. It is true that the beneficent effect of British rule and the general progress of civilization have caused it to diminish in some districts; but, again, the circulation of silver coins has been pushed into channels formerly not reached by it and where there was previously no opportunity for hoarding. Wages have risen, the use of money has extended, and, since the needs of the population have not increased in proportion, more money is available for hoarding. In many parts of the densely populated land no means exist for securely investing money, confidence is weak, and the hoarding of coin is the only safe form of saving. Moreover, an Oriental population is not easily moved from its old habits.\* Considering the habit of hoarding, and the fact that the circulation of rupees is in many districts very small, some observers have assumed that the probable present monetary circulation of India is no more than half the sums that have been coined. This is no more than a guess, yet the contrary statement of a circulation of about 2,000,000 rupees is also a guess. The same difference of opinion appears when it is stated, on the one hand, that India is in a condition to absorb in time any quantity of silver not elsewhere disposable, and on the other hand, in the assertion that the demand for silver in India, other things remaining the same, can be satisfied in future by about 30,000,000 rupees per year.

The great importance of the flow of the precious metals to India induces us to add extracts from two recent essays whose author has prac-

tical acquaintance with the condition of India.

In an essay in the London Bankers' Magazine, May, 1886, it is said: "The continued fall in the rate of exchange on India has been accom-

In answer to inquiries in regard to the use of money and of the precious metals in ordinary intercourse in India, I received in May of the present year the following communications from private friends. They are based on their own personal observation in the interior. They confirm the remarks in the text, and contain matter which does not readily find its way into books, and official reports, yet contributes to the under-

standing of the actual state of affairs.

In a letter from the Godaveri district it is said: "Barter prevails in the rural population. In the villages rice is the common medium of exchange. Even goldsmiths, carpenters, and other mechanics get their wages in rice. The only exception is in the case of the grave-digger, who gets, besides his quantum of rice, 5 dubs for every grave. In the cities and in the larger villages payments are made in coin. The ordinary rate of wages for a man is 3 annas in the city, 2 annas in the country; a woman gets half as much. Wages were formerly even lower. Ten years ago a cooly got no more than 2 annas per day. The increase in wages which has taken place, however, is offset by a rise in prices. Rice, wheat, etc., have greatly risen in price in the last twenty years, though in the last ten years they have risen by no more than one-tenth.

"Money is usually in the hands of the Brahmins and of the traders. The cooly either has no money or has only enough for paying his daily expenses, so that the few dubs that he receives are immediately paid out for his food. If he happens to receive wages enough to live on for two days, he simply stops work so long. The cooly has no thought of saving or of accumulating money. The sole possessions of the ordinary Paria are a miserable mud hut, roofed with palm leaves, a dirty wife and equally dirty children, and one or two rice-pots and a water-jug. He owns the very minimum of implements for daily use. When he is hired, tools almost invariably must be loaned him.

"Hardly any but copper coins appear in ordinary trade. Rupees and other silver coins occasionally occur, but sparingly. Even well-to-do people have comparatively few rupees. These are very largely melted and converted into articles of ornament. The burying of silver, which was formerly common, is decreasing. Occasionally melted lumps of silver, whose owner has died and taken the secret of his treasure to the grave with him, are found in the fields. The hoarding of silver, as already said, constantly becomes less common, and money is usually converted into articles of ornament.

"Gold coins are not money, and the sovereigns and the still rarer mohurs are bought and sold as bullion, and melted for conversion into articles of ornament. The extent to which this is done is incredible. At a well-ordered wedding among the higher classes the bride must contribute jewelry to the value of 1,000 rupees and the bridegroom to the value of 2,000 rupees. This is the whole of their property. Less well-to-do people, of course, have less, but the more jewelry there is, the finer is the wedding. Debts are often contracted for this purpose which remain unpaid life-long. It is not so much the jewels in the gold, as the gold itself, by which the Bindoo is attracted irresistibly. Gold chains worth 1,200 rupees are often worn. Women even of the lower classes are seen with ornaments consisting of sovereigns, or of 20 and 10 franc pieces. When I asked one of these women why she carried these gold pieces about her neck, she asked me why I bought a watch and a piano. The staple subject

panied by great changes in the trade between India and Great Britain, The export of commodities from India has risen greatly, but the export from Great Britain to India has risen no less, while at the same time a considerable fall in prices has taken place for Indian articles of export and import. The export and import trade of a country are always closely connected. In the case of India there is a complication, because the Indian Government has annually to send large sums to England. These sums are due for interest on the Indian debt and on the railroad loans guaranteed by the Government. Besides, there are considerable payments for purchases in England on Indian account. Lastly, Europeans employed in India annually remit large amounts to their families in Europe, and remittances are made for pensions, etc. All these payments are so many debts due by India. They must be paid by an export of commodities from India, and a natural consequence is that exports considerably exceed the imports.

"If we compare the average of the last five-year period, 1881-'85, with the average of the period 1886-'70, the excess of imports shows an increase of 91,320,000 rupees, while at the same time the import of gold shows about the same increase, and the net import of silver shows a de-

of conversation for the women is how much jewelry this or that woman has, while that of the men is about the amount of gold owned by this or that neighbor, and the amount of money he has loaned out. Women wear by far most of the jewelry; as a rule, silver on the ankles and arms, and gold about the head, in the ears and nose, around the neck, and on the fingers. A native trader told me that the capital which he had lying idle in the form of gold ornaments would bring him 12 rupees per month. When I proposed to him that he should put this sum into the savings-bank, he rejected the proposition with the answer that he would have no more friends, as he would no longer look 'neat and nice.' A native judge, an educated and sensible man, told me that he had given his wife ornaments worth 3,000 rupees, but that she was always begging him for more, because this or that neighbor had more of one or another sort than she, and she could not endure another woman looking 'nicer.' He had told her that she had a piano and other European luxuries; but she wanted gold. He had advised the traders and the prominent men of the place to invest their gold in good railroad securities, but he had been laughed at as much as when he had bought his piano. This same judge is now building a house in which he is using European methods as much as possible; but he was willing to put no ventilators into it, as thieves might creop in through them and steal his gold. 'You can leave everything else unprotected, he said, 'even the most valuable things are never stolen. The only thing that the Hindoos, especially the women, long for, is gold."

In another letter, referring mainly to the province of Behar, it is said: "The daily laborers and the mechanics in the villages get their pay mainly in kind, in rice, wheat, etc. In the cities they get money. The daily wages of a laborer in the cities are now about 3 annas. In the last ten years they have risen about half. But the prices of rice and wheat have also risen. What cost a rupee ten years ago now costs a rupee and 5 annas or a rupee and 6 annas. Savings are usually invested in silver ornaments, especially bracelets and rings about the feet, for women. Richer people buy gold ornaments. The burying of treasures, which was formerly common, takes place less and less, as the fear of robbery has diminished. In the larger cities ornaments are bought ready made; in the villages and smaller cities they are made from rupees melted down. The well-to-do hoard their savings, not only in articles of ornament, but in rupees. Rich people deposit their money in the local savings-banks or else lend it at interest. Those who are in Government service buy

public securities.

"Gold coins are not in circulation, being used chiefly at weddings and other festivals as presents. The last Maharajah of Burdwan had accumulated a treasure of 20,000,000 rupees in gold coins. The English Government after his death induced his widow and mother to exchange the gold for public securities, but the natives regarded this as nothing less than an act of violence."

Private letters such as these, sent me from India by Germans, who have no interest in distorting facts one way or another, may serve to explain that large import of gold into India which astonishes so many observers and seems to be a phenomenon of no temporary duration. Mr. Claremont J. Daniel, in his volumes Gold in the East, (London, 1880), and the Gold Treasure in India (London, 1884), states his belief that the introduction of a gold or double standard in British India would not increase the scarcity of gold, but would rather diminish it, since the enormous sums now held there would then return to the channels of trade,

crease by about 33,500,000 rupees. Considering the increase in the production of silver and the fall in the price of silver, we might have expected an increase rather than a diminution in the import of silver. The balance of payments has therefore been maintained in some other way, and this has taken place by the increase in India council bills.

"The bills of exchange sold by the Indian Government in London

were, on the annual average, as follows:

Years.	Average.	Years.	Average.
1866-'70	£5, 371, 371	1876–'80	£12, 886, 048
1871-'75	11, 364, 047	1881–'85	16, 026, 268

"This method of payment, the result of the increasing debt of India to England, has risen in the last twenty years by more than £10,000,000 per year. In the same period the import of the precious metals to India has declined by nearly £3,500,000.

"The rate of council bills during the years 1866-'70 averaged 23.31 pence per rupee, and the price of silver in London averaged 60.78 pence per ounce. In 1885 the averages were only 19.3 pence and 49.94 pence.

"The increasing supply of council bills has depressed the price of silver, and the fall in the price of silver has again depressed the rate of

exchange.

"We have already mentioned the extraordinary increase of the council bills which replace the export of silver to India, and have mentioned the increasing debt of India to England as its cause. It is true that this cause has been, upon the whole, a most important one; but there is still another reason why it should have increased in effect in the last decade. The explanation is that in former periods the quantity of council bills remained smaller because the Indian Government was raising in England loans for Indian railways, and from the yield of these loans deducted certain sums which otherwise would have had to be paid by council bills. As loans ceased to be contracted, it became necessary to resort to a larger issue of council bills."

We quote now, with some condensation, extracts from the concluding passages of an excellent book recently published in Calcutta by Mr. Barbour, secretary of the treasury for India (The Theory of Bimetallism and the Effects of the Partial Demonetization of Silver on England and India):

The common opinion that India can absorb any quantity of silver, and that the absorption is only a question of the price of Indian products, is not founded. In the years from 1836 to 1855 the import of silver to India was moderate, about sufficing to meet the demand. From 1856 to 1866 India imported much more silver, partly in consequence of the heavy loans resulting from the Sepoy insurrection and from the building of railroads, partly because of the extraordinary demand for cotton during the American civil war. From 1867 to 1876 India imported comparatively little silver. From 1877 to 1885 the import rose again, chiefly in consequence of the favorable balance of trade. India needs in any event an annual import of silver of about 30,000,000 rupees; possibly twice that sum. It is not likely that this amount will be exceeded in the future, unless there be great Government loans or unusual contingencies. No doubt cheap freights to Europe and the extension of railroads and canals will stimulate exports, and especially the export of wheat; yet there is a limit to the possibility of exports from India. Moreover, the quantity of council bills is likely to increase on account of interest on the Indian debt, and a general rise of the payments due by the Indian Government in London, and the remittances of silver would be dimished by this cause.

Since the depreciation of silver no rise has taken place at Indian ports in the prices either of articles of export or import. Yet an effect of the arbitrary depression of silver on Indian prices may exist in the prevention of a fall in prices that otherwise

mould have taken place.

Although British India is by far the most important absorber of the precious metals, the other countries of eastern Asia must also be considered. In former years, when the export of opium from India to China had not reached so great an extent, silver was exported to China in large quantities, and there went into circulation or was hoarded. A considerable flow of the precious metals still takes place from the civilized countries to China, partly by sea and partly by way of Kiachta; for the value of the tea, silk, and other products exported far exceeds that of the European and American productions which are imported. A large part of the coin brought into China is re-exported to India in exchange for opium, cotton, etc. The rest remains in circulation, or is hoarded, within the country. The case is the same with the gold which Chinese workmen bring from California and Australia.

The statement in the Deutsches Handelsarchiv for July, 1886, gives the following figures of the recorded import and export of the precious metals in China:

Exports	and	imports	of	precious	metals	in	China.
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		Imports.		•		
Years.	Sycee, Shanghai taels.	Mexican dollars.	Gold, Shanghai taels.	Sycee, Shanghai taels.	Mexican dollars.	Gold, Shanghai taels.
1881	14, 109, 488	13, 406, 037	1, 850, 892	13, 835, 636	5, 516, 570	820, 464
1882	23, 908, 944	18, 471, 967	1, 825, 086	17, 884, 084	12, 427, 371	881, 715
1883	14, 208, 193	10, 674, 167	1, 426, 178	10, 733, 855	8, 276, 033	1, 224, 629
1884	15, 850, 067	12, 410, 787	302, 476	14, 348, 048	4, 236, 585	869, 708
1885	14, 080, 668	8, 111, 205	2, 617, 426	22, 679, 887	2, 888, 527	4, 755, 051
Total	82, 132, 360	63, 074, 163	7, 021, 553	79, 481, 010	33, 345, 086	8, 551, 567
	16, 430, 472	12, 614, 833	1, 404, 811	15, 869, 202	6, 669, 017	1, 710, 313

Converting the Sycee silver and the Mexican dollars into kilograms fine, we get for the five years, 1881-'85, an average import of silver into China, 868,800 kilograms; export of silver from China 706,200 kilograms, or an annual excess of imports of 163,500 kilograms.\* On the other hand, the exports of gold exceed the imports.

In the report accompanying these figures it is said:

The general feeling of insecurity among the well-to-do classes prevents them from investing their property in any income-yielding form. Although enormous sums are undoubtedly saved, it is impossible to give any figures as to their amount. In so-called good times a part of these hoards are turned into the banks for investment, but the least feeling of coming insecurity causes them immediately to disappear.

<sup>\*</sup> Sic in the original.

The exports of the precious metals from the United States to China (inclusive of Hong-Kong) and to Japan, and the exports from these countries, are given as follows in the official statistics:

Fiscal years.	Exports to China.	Imports from China.	Exports to Japan.	Importa from Japan.	
1871	. \$3, 571, 647	\$1,950	\$1, 154, 168	\$89, 83	
1872		700	3, 580, 053	2, 636, 65	
1873	7, 154, 549	181	6, 890, 871	1, 349, 58	
1874		39, 772	822, 182	20, 91	
1875		6, 840		12, 73	
1876		6, 908	2,070	38, 12	
1877	. 15, 430, 865	10, 952	1, 672, 538	2,37	
1878		7, 550	527, 057	95, 07	
1870	7, 431, 862	134, 635		49, 32	
1880	. 6, 512, 828	90, 991	270, 560	441, 94	
1881		41, 179	2, 468, 535	904,00	
1882	4, 450, 210	36, 005	454, 678	712, 97	
1883	. 7, 140, 480	192, 801	536, 910	1, 061, 55	
1884	9, 341, 559	5, 260	1, 046, 200	<b>655</b> , 05	
1885	. 14, 573, 233	1, 529	1, 487, 846	541, 86	

The exports of precious metals from the United States to China and Japan consist almost exclusively of silver, whereas the imports consist mainly of gold. There is, however, an import of trade dollars, of which a considerable quantity have found their way back to the United States, where they are sold at a higher rate than their intrinsic value. The trade takes place almost exclusively by way of San Francisco. In earlier publications we estimated the annual average export of silver from San Francisco to Asia for the period 1861-'70 at 88,000 kilograms, and for the period 1871-'80 at 215,000 kilograms.

Westwood Thompson's Indian Circular states the export of the pre-

cious metals from San Francisco to China as follows:

Years.	Mexican and trade dollars.	Silver in bars.	Gold.
1884	\$8, 931, 207	\$3, 986, 797	\$335, 114
1885	7, 562, 152	4, 727, 132	477, 320

The export of the precious metals from Russia to China, by way of Kiachta, is given as follows in the tables separately published on this subject:

Years.	Silver.	Gold.	Years.	Silver.	Gold.
1872	Rubles. 432, 000 70, 000 44, 000 29, 595 160, 294 681, 950	Rubles. 942, 000 1, 063, 000 1, 003, 000 1, 621, 200 824, 831 82, 010	1878 1879 1880 1881 1882 1883	Rubles. 2, 628, 579 2, 823, 847 1, 570, 874 3, 088, 822 1, 862, 271	Rubles. 526, 572 366, 701 1, 344, 826 387, 113 152, 403

The exported gold consists of half-imperials. In the exported silver the proportion of Russian silver coins has become small, and silver bars are chiefly used. The great differences in different years are sur-The average annual flow of the precious metals in this channel in the period 1872-1883 amounted to about 900 kilograms gold and 21,000 kilograms silver.

The Netherlands exported to their colonies between 1842 and 1880 silver coins as follows:

Periods.	Exports.	Equivalent in fine silver.
1842-'60. 1861-'70. 1871-'80.	Florins. 98, 602, 127. 50 150, 634, 456. 00 88, 206, 075. 00	Kilograms. 931, 790 1, 423, 496 786, 297
Total	332, 442, 658. 50	3, 141, 583

Assuming the sums that came back to be 3½ per cent. of the total, we get for the thirty-eight years a net export of silver to the Dutch East Indies of 3,031,600 kilograms of silver fine, making an annual average of about 80,000 kilograms. This estimate, derived from the mint at Utrecht, does not tally with the statements which Mr. Van den Berg, president of the Java bank, at Batavia, presents on the flow of coin between the Netherlands and their East Indian colonies. This gentleman gives the following estimates:

	Exports from the Netherlands to East India.	Exports from the East Indies to the Netherlands.
1875.	Florins. 4, 250, 000	Florins. 2, 480, 000
1876	8, 500, 000	8, 339, 000
1877 1878	10, 000, 000	6, 720, 000
1879 1880		8, 050, 000 8, 930, 000
1881		1, 247, 000
Total	44, 250, 000	25, 766, 000

The re-export of Dutch silver from Java, which of course does not extend to subsidiary coins, is to be explained in two ways. The establishment of the gold standard in Holland has given to silver since 1875 a nominal value exceeding its intrinsic value. The absorption of the silver imported into Dutch East India by hoarding and melting on the part of the natives has ceased. Before 1875 this absorption of silver took place to a remarkable extent; and so far as this earlier period is concerned the mint statement given above may be considered correct.

The gold and silver which is coined in Austrian mints into ducats and Maria Theresa thalers is also to be considered as lost from the

monetary supply of civilized countries.

The same is true of the considerable sums of coin which the French government sends year after year to Algeria; they are spent among the natives, and in part never return to trade. The coins sent by France in recent years to Farther India must also have absorbed a great deal of silver, in regard to which, however, we have no precise information.

The wars carried on by the English during the last few years in South Africa, Egypt, and the Soudan, have caused large quantities of sovereigns to go to those countries. Such coins are likely to find their way back to civilized countries only in part and gradually.

If we now reckon together the total quantity of the precious metals which has flown from civilized countries in the five years 1881-'85 to

Asia and Africa, we may conclude that it has amounted annually to more than 30,000 kilograms gold and 1,500,000 kilograms silver. The great uncertainty of any estimate of this kind must, of course, be admitted.

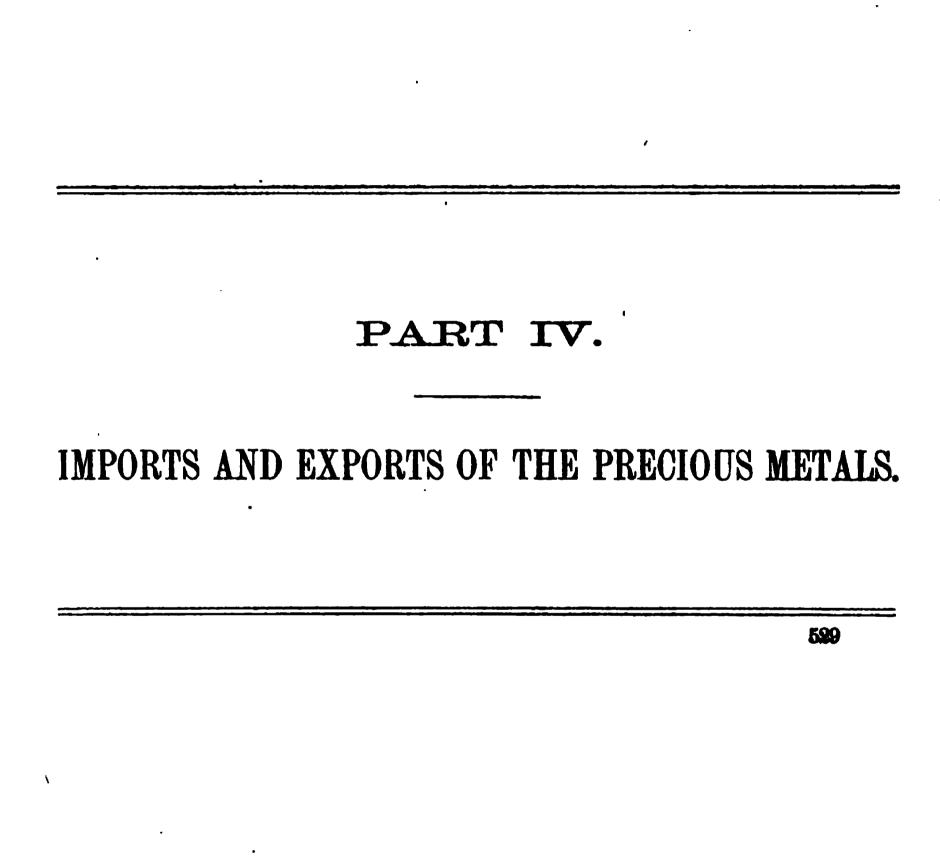
We endeavored to give in the first part of the Materials a statement of the total production of the precious metals in the years from 1851 to 1885. In the preceding paragraphs we have endeavored to give an es-

timate of their contemporaneous consumption.

We now venture to present a general table, similar to others previously prepared by us, showing the probable monetary supply of gold in civilized countries. We do not, however, venture to present a similar table in regard to silver. If the statements of the production and the consumption of gold and silver are not exact, the same is the case, in a still higher degree, with the present statement. Yet we give it, since it affords a certain check on the approximate correctness of individual estimates, and since, upon the whole, there is a probability of its being accurate. If one or another of our estimates has been very far from the truth, this must appear in such a combination of the results. We present to the reader, who will bear in mind these introductory remarks, and will remember, moreover, what we have said as to the latent reserve of the precious metals, a summary balance sheet of the production and consumption of gold and of the monetary gold supply on hand at different periods since 1851.

Probable changes in the monetary supply of gold in civilized countries in the years 1851 to 1885.

		No	Non-monetary consumption.						
Periods.	Production of gold.	A brasion of coins and loss by accident.	Consumption in the arts, deducting old gold remelted.	Net flow to the East.	Total non-mone- tary consump- tion.	Used for money reserves.		y in money and es at the close riod.	
1850 1851-'60 1861-'70 1871-'80 1881-'85	Xilograms. 2, 006, 000 1, 900, 000 1, 732, 000 746, 000	K'g'ms. 5,000 7,000 8,000 4,000	<i>Kilog'ms</i> .  280, 000 570, 000 840, 000 420, 000	Kilog'ms.  100, 000 300, 000 110, 000 150, 000	Kilog'ms.  385, 000 877, 000 958, 000 574, 000	Kilograms.  1, 621, 000 1, 023, 000 774, 000 172, 000	Kilograms. 1, 200, 000 2, 821, 000 3, 844, 000 4, 618, 000 4, 790, 000	Marks. 3, 348, 000, 000 7, 871, 000, 000 10, 725, 000, 000 12, 884, 000, 000 18, 364, 000, 000	



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# IMPORTS AND EXPORTS OF THE PRECIOUS METALS.

The statistics of most countries give much attention to the imports and exports of the precious metals, coined and uncoined, and generally give detailed statements of their inflow and outflow. This may be ascribed in part to a persistence of the ideas of the mercantile system, by which the net import of the precious metals was supposed to indicate an obvious increase of national wealth. But the statistics are kept, also, because the movement of the precious metals, when combined with other data, is supposed to give important information for many practical questions. The various periodicals which give regular information on trade and finance publish as quickly as possible, at the close of each month, the official statements of the imports and exports of gold and silver in Great Britain, France, the United States, etc., giving them in more or less detail and accompanying them with more or less comment. It is supposed that these statements give significant data, both for the time being and for longer periods, in regard to the general state of trade. Doubts, it is true, have been expressed occasionally by competent persons as to the value of such conclusions; and a thorough reform in the statistics of the international movement of the precious metals has been declared necessary. We will cite a few recent utterances. Mr. J. B. Martin, a London banker, said on the 15th of April, of this year, at a meeting of the well-known institute of bankers, that he had had the curiosity to count the 20-franc pieces which his firm had received during a recent influx of French gold into England. He found that the amount was about 3,300,000 francs; whereas the declared value as given by the Board of Trade was only 600,000 francs. The Board of Trade had stated only one-fifth of the actual import. If many cases of this kind occur, the official statistics of the imports and exports of the precious metals must be considered quite untrustworthy. Professor Carlo F. Ferraris, in a report to the council for statistics at Rome, has shown that the customs statistics of the movement of the precious metals to and from Italy are very incomplete. For instance, the official statement gave 31,010,225 lire as the export of gold and silver in the year 1884, whereas a careful investigation made elsewhere showed the export to be 46,898,962 lire.

The interest generally felt in the regular official statements of the international movement of the precious metals induced us to undertake for this publication an examination of the trustworthiness of these statements, the more so since a sufficient means of checking them was at hand. If in two countries, E. and F., the export and import of the precious metals from the one to the other is given correctly, then, obviously, the export from E. to F. must equal the import from F. to E. If the statistics of both countries agree, we may conclude that their statements are correct, since it is practically impossible that for longer

periods arbitrary or incomplete statements should happen to agree. On the other hand, if considerable discrepancies appear, we must conclude that the statistics of one of the countries are incomplete and untrustworthy, or, indeed, that this is the case with both. It need not be said that we are not concerned here with occasional or slight discrepancies.

Let us consider first the trade between Great Britain and France. In the official statistics, both of England and of France, calendar years are used, and with the present means of communication between the two countries, the difference in time between export and import can cause no great discrepancy. We must conclude, therefore, that if the statistical returns are correct on both sides, they should agree substantially. The following tables, which reproduce the official figures for the period from 1871 to 1884, show that a substantial agreement by no means exists, and that this is the case not only with the general trade, but also with the special trade. Converting the figures for both countries into marks, and considering the "general" trade of France (that is, export and import, inclusive of transit trade) we get the following results:

	Gold.					Gold. Silver.				
Years.	Imports into Eng- land from France.	Exports from France to England.	Exports from Eng- land to France.	Imports to France from Eng- land.	into Eng-	Exports from France to England.	Imports to France from Eng- land.	from Eng-		
1871-'75 1876-'80 1881-'84	52, 900, 000	Marks. 44, 800, 000 43, 000, 090 34, 500, 000	04, 900, 000	75, 900, 000	36, 100, 000	80, 400, 000	22, 700, 000	28, 700, 000		

Movement of the precious metals between England and France, 1871-'84."

#### a. IMPORTS TO ENGLAND AND EXPORTS FROM FRANCE.

	Go	id.	Silv	rer.	Gold an	d allver.	]
Yeara.	Imports to England from France (British statistics).	Exports from France to to England (French statistics).	(British	Exports from France to England (French statistics).	Imports to England from Franco (British statistics).	Exporta from France to England (French statistics).	Average rate of dis- count of Bank of England.
1871	2, 116, 557 1, 508, 985 740, 395 2, 022, 904 1, 427, 024 872, 800 5, 908, 078 -2, 905, 823	France. 120, 750, 220 63, 360, 020 27, 116, 130 8, 942, 580 20, 892, 700 12, 774, 003 2, 624, 384 61, 302, 088 02, 969, 480	£ 91, 011 25, 487 42, 491 72, 273 92, 305 40, 628 31, 800 60, 657 46, 584	France. 14, 020, 302 17, 775, 469 3, 807, 490 5, 030, 258 4, 436, 230 14, 571, 260 8, 315, 820 19, 386, 440 31, 740, 735	8, 040, 044 2, 851, 476 1, 912, 667 8, 415, 269 2, 767, 852 2, 894, 160 7, 648, 735 5, 251, 907	France. 134, 779, 522 81, 135, 489 80, 923, 020 14, 672, 838 84, 329, 026 27, 345, 252 11, 140, 204 80, 691, 137 94, 716, 215	Par cent. 2. 87 4. 12 4. 75 8. 75 3. 26 2. 62 2. 75 3. 75 3. 75
1880 1881 1882 1888 1884 Yearly average for— 1871–75 1876–80 1881–84	2, 129, 539 1, 832, 861 1, 294, 668 1, 951, 145 2, 019, 421 2, 646, 252	87, 622, 168 35, 564, 600 19, 824, 552 85, 832, 584 21, 504, 480 50, 014, 148 85, 478, 742 28, 596, 604	88, 685 58, 961   43, 208   59, 628   27, 708   1, 184, 313 1, 803, 601 1, 974, 878	12, 959, 985 7, 761, 780 21, 680, 888 9, 524, 458 12, 784, 719 9, 193, 951 17, 390, 320 12, 787, 961	4, 186, 671 3, 588, 500 4, 475, 569 8, 364, 816 3, 678, 852 8, 203, 784 4, 449, 653 8, 776, 809	50, 481, 503 48, 326, 580 40, 905, 440 45, 357, 042 36, 849, 199 59, 206, 099 52, 978, 062 41, 484, 565	2, 75 3, 50 4, 12 3, 56 2, 95 3, 75 2, 87 3, 53

<sup>\*</sup>The figures in these tables (a and b) refer to the "special" trade (which excludes transit trade) for France. The preceding table gave figures for the "general" trade. There are considerable discrepancies i both tables, but they are more striking in the "special" trade. All subsequent tables for France give the figures of "special" trade.

Movement of the precious metals between England and France, 1871-'84—Continued.

b. EXPO	RTS FROM	ENGLAND	AND	IMPORTS	TO	FRANCE.
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•	Gold.		Sil	ver.	Gold an		
Years.	Exports from Eng- land to France (British sta- tistics).	Imports to France from Eng- land (French sta- tistics).	Exports from Eng- land to France (British sta- tistics).	from Eng- land	from Eng- land to France	Imports to France from Eng- land (Frenchsta- tistics).	Exchange on London in Paris, 3 months date, per 1 &.
1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 Yearly average	1, 040, 448 632, 316 5, 433, 712 5, 251, 444 4, 188, 566 6, 147, 504 4, 599, 429 693, 710 602, 218 1, 088, 945 3, 289, 947	France. 81, 925, ?00 40, 022, 000 15, 431, 100 193, 005, 700 162, 694, 000 109, 406, 640 168, 408, 240 144, 055, 040 17, 181, 528 15, 413, 032 36, 956, 144 77, 219, 120 1, 800, 480 10, 637, 200	£1, 239, 904 871, 177 8, 564, 052 1, 321, 658 2, 449, 730 1, 832, 919 767, 574 2, 190, 877 722, 683 173, 444 704, 069 350, 213 188, 915 683, 146	Francs. 37, 755, 263 25, 004, 586 120, 098, 500 38, 895, 800 64, 840, 945 33, 705, 800 14, 973, 400 51, 196, 680 23, 231, 760 6, 063, 295 21, 794, 949 18, 234, 570 8, 454, 985 10, 858, 090	£2, 809, 075 1, 911, 625 4, 196, 368 6, 755, 370 7, 701, 174 6, 021, 485 6, 915, 078 6, 790, 306 1, 418, 393 775, 662 1, 793, 034 3, 640, 160 290, 149 890, 480	France. 69, 680, 468 65, 026, 586 135, 529, 600 231, 901, 500 227, 534, 945 143, 112, 440 183, 381, 640 195, 251, 720 40, 413, 288 21, 476, 327 58, 751, 063 90, 453, 690 10, 315, 465 20, 995, 290	Francs. 25. 85 25. 86 25. 82 25. 81 25. 48 25. 38 25. 31 25. 42 25. 47 25. 47 25. 50 25. 55
for— 1871-'75 1876-'80 1881-'84	2, 785, 418 3, 246, 685 1, 185, 865	88, 615, 600 90, 892, 896 31, 668, 236	1, 889, 304 1, 137, 500 469, 091	57, 819, 019 25, 834, 187 13, 460, 641	4, 674, 722 • 4, 384, 185 1, 654, 956	145, 934, 619 116, 727, 083 45, 128, 877	25, 77 25, 39 25, 50

There are many surprising and noteworthy points in these tables. Adding up the statements of the shipments of the precious metals in these tables between England and France, and converting pounds and francs into marks, we get the following results:

•	Gold.	Silver.	Gold and silver.
Imports to England from France, by British statistics Exports to England from France, by French statistics	<i>Marks</i> . 610, 722, 000 <b>433, 801, 000</b>	<i>Marks</i> . 456, 782, 000 147, 283, 000	<i>Marks.</i> 1, 067, 504, 000 581, 084, 000
Excess of British over French figures	176, 921, 000	309, 499, 000	486, 420, 000
Imports to France from England, by French statistics Exports to France from England, by British statistics	819, 372, 000 098, 080, 000	375, 687, 000 340, 208, 000	1, 195, 059, 000 1, 038, 288, 000
Excess of French over British figures	121, 292, 000	35, 479, 000	156, 771, 000

The export of the precious metals from England into France, that is, the imports into France from England, for the fourteen years 1871-'84, are made by the French statistics nearly 157,000,000 marks greater than by the English statistics, a yearly discrepancy of about 20,000,000 marks. On the other hand, the imports into England from France, that is, the exports from France to England, are made by the French statistics to appear less by 486,000,000 marks than by the English statistics, a yearly discrepancy of about 35,000,000 marks.

This great discrepancy, remaining as it does even when a number of years are considered, renders it almost superfluous to point out the discrepancies in individual years. A few examples will suffice: In 1878 the English statistics give the import of gold into England from France at £5,908,078 (118,200,000 marks). But in the French statistics the corresponding export of gold from France to England is said to be 61,302,688

francs (49,000,000 marks). According to the French statistics there were imported into France from England, in 1883, 120,098,500 francs of silver (96,000,000 marks), while the British statistics for the same year stated the export of silver from England to France to be £3,564,052 (71,300,000 marks). Such great differences prove beyond doubt that there are mistakes in the statistical publications of one or both of the two countries. It is immaterial that for some years, as a glance at the tables will show, the figures tally more or less closely. This must be ascribed to accident, in face of the enormous discrepancies in other years. Moreover, there seems to be no general tendency in the variations, from which one could reach any conclusions as to their causes.

Let us turn, now, to a comparison of the movement of the precious metals between England and the United States, following again the official statistics of both countries. Here we encounter two difficulties. In the first place, we find that in the American tables at our disposal, for some years gold and silver are not given separately, but both metals are lumped together. In the next place, the American reports refer not to calendar years, but to fiscal years ending June 30. Comparisons can therefore be readily made only for the averages of several successive

years, and even then have only an approximate value.

Movement of the precious metals between England and the United States, 1871-85.

In this table, as already remarked, individual years can not be compared with each other, since the American statistics are arranged for fiscal years from July 1 to June 30. Even in comparing the averages of five-year or three-year periods, the effect of this difference must be taken into account.

Taking now the fifteen years from 1871 to 1885 (or 1870-771 to 1884-785) we find that the British statistics state the total value of the export of the precious metals from England to the United States to be £34,645,000 (693,000,000 marks). The American statistics, however, state the import of the precious metals from England to the United States to be \$160,754,000 (675,000,000 marks). The export of the precious metals from the United States to England, that is to say, the import of the precious metals into England from the United States, is stated in the English statistics to be £96,860,000 (1,937,000,000 marks), and in the

American statistics it is stated to be \$495,913,000 (2,083,000,000 marks). This nearly close agreement, both for export and for import, in the two largest trading countries of the world, is certainly strong evidence of the approximate accuracy and practical trustworthiness of the figures.

An agreement of this kind can not be found on comparing the French and American statistics of the movement of the precious metals between France and the United States—a movement which does not begin to attain dimensions as large as those of the trade between the United States and England.

We are unable to give similar comparative statements in regard to the imports and exports of the precious metals to and from Germany, since Hamburg and Bremen are outside the customs lines and have separate statistics.

Movement of the precious metals between England and Hamburg, direct by sea.

	Gold an	d silv stati	ver, Hamburg latica.	Exports from England to Germany, British		Imports to England from Germany, British		
Period.	Imports to Hamburg		Exports from	statis	tice.	atatii	atatistice.	
	from E land	ng-	Hamburg to England.	Gold.	Silver.	Gold.	Silver.	
Average of the years— 1872-775 1876-'80 1881 1882 1833 1884	18 6 8 1	75 68 30 60 29 60 50	Marks. 32, 488, 827 108, 658, 000 12, 896, 000 12, 477, 000 7, 683, 000 10, 988, 000 13, 176, 000	£6, 488, 056 3, 620, 223 610, 919 599, 802 189, 018 288, 296 8, 169, 982	#496, 201 783, 874 766, 361 149, 776 289, 800 14, 524 39, 453	4,266, 621 496, 106 442, 866 53, 035 157, 496 71, 519 217, 696	£1, 285, 201 4, 860, 509 222, 720 558, 198 289, 603 862, 704 417, 320	

For the whole period from 1872 to 1885 the totals for gold and silver together are, in German money:

•	Marks.
Imports to England from Germany (British statistics)	715, 700, 000
Exports from Hamburg to England (Hamburg statistics)	729, 800, 000
Exports from England to Germany (British statistics)	1, 036, 600, 000
Imports to Hamburg from England (Hamburg statistics)	1, 144, 600, 000

Great Britain, the United States, France, and Germany, are of such preponderating importance in international trade that in a compendious publication like the present it is needless to extend this investigation, to other countries.

# TOTAL EXPORTS AND IMPORTS OF THE PRECIOUS METALS IN DIF-FERENT COUNTRIES.

In order to complete those statistics of the international movement of the precious metals, whose trustworthiness we discussed in the preceding paragraphs, we must present general statements of the exports and imports of the precious metals in the leading countries. It is true that even for those countries whose official statistics give fairly correct figures in regard to international trade, the returns indicate only with approximate truth the actual movement of the precious metals. But, on the other hand, the same method is used in these countries year after year, and we get, therefore, a clue as to the general tendency from one year to another of each country's trade in the precious metals. The use of the precious metals in the arts, which was discussed in Part III, necessarily causes the imports of the precious metals to exceed the exports in those countries which do not produce gold or silver. Moreover, a

considerable inflow and outflow of the precious metals takes place in all countries through travelers and emigrants, while undeclared remittances take place, not embraced in the official statistics and very difficult to estimate. We now present the tables, so far as material is at hand, for longer periods. For the years previous to 1871 we give averages of several years, lest too much space should be occupied by this part of the compilation.

Imports and exports of precious metals in Great Britain.

## \*Average of years.

The total recorded movement of the precious metals in the years 1871-785 was:

	Total Carlo
Imports of gold	£240, 750, 624 (4, 815, 600, 660)
Imports of silver	172, 176, 806 (2, 443, 500, 000)
Exports of gold	228, 619, 287 (4, 572, 400, 000)
Exports of allver	161, 969, 942 (3, 239, 400, 006)

The average annual excess of imports of gold was, 1871-'85, £808,756 (16,200,000 marks); of silver, was £680,444 13,600,000 marks. The average annual excess of imports of gold in the period 1858-'70 had been £5,142,523 (102,900,000 marks); of silver, had been £154,495 (3,100,000 marks). The small net import of silver is explained by the considerable domestic production of silver from lead ores and from imported ores.

The importations of gold and silver to England came from the following countries:

		Gold from—		8	Siver from—	
Periods.	Australasia.	United States	Other countries.	Mexico, South America (ex- cluding Brazil and West Indies.)	Сеннаву.	Other countries.
1861-*70	260, 741, 335 35, 686, 312 24, 989, 712 4, 470, 166 3, 996, 549 2, 256, 128 709, 368 3, 737, 424	£58, 812, 508 30, 720, 580 7, 743, 571 28, 191 6, 090, 788 9, 777 5, 072, 094 909, 044	£52, 566, 508 35, 512, 492 50, 779, 628 5, 469, 629 5, 289, 227 5, 489, 895 4, 962, 926 8, 780, 098	£48, 008, 580 16, 898, 265 15, 915, 608 1, 965, 615 8, 306, 682 8, 787, 681 4, 897, 296 8, 668, 544	24, 798, 507 6, 325, 189 24, 302, 547 322, 720 558, 198 289, 663 363, 764 417, 320	£87, 424, 81 40, 847, 20 24, 208, 86 4, 713, 05 8, 376, 04 5, 200, 45 4, 873, 43 5, 827, 74

In regard to the exports of precious metals from England to British India, see the tables given above (pp. 80, 81, 85).

Imports and exports of the procious metals in France.

## "Average of years.

The total movement of the precious metals in France in 1871-'84 was:

		Marks.
Imports of gold	4, 071, 591, 000	(8, 257, 300, 000)
Imports of silver	2, 700, 187, 000	(2, 160, 100, 000)
Exports of gold	2, 793, 752, 000	(2, 235, 000, 000)
Exports of silver	1, 312, 817, 000	(1, 050, 200, 000)

The average annual excess of imports of gold in 1871-'84 was therefore 91,274,214 francs (73,000,000 marks); of silver, was 99,094,286 francs (79,300,000 marks); as compared with an average annual excess of imports of gold in 1851-'70, of 254,724,600 francs (203,800,000 marks); and of silver of 54,250,250 francs (43,400,000 marks).

Imports and exports of the precious metals in Italy, 1862-'77 (according to the customs records).

	Gold and silver.					
Years.	Imports.	Exports.	Excess of imports.	Excess of exports.		
	Line.	Lire.	Lire.	Láre.		
802	154, 702	1, 048, 970		692, 266		
863		402, 416		192, 266		
944	154, 480	189, 762		85, 33		
965	84, 465	743, 440		708, 97		
001	1, 864, 170	4, 691, 000		3, 326, 83		
867	1, 401, 877	7, 753, 740		6, 271, 86		
968	1, 457, 685	1, 478, 710		16, 04		
961	1, 512, 700	157, 040	1, 355, 660			
870	1, 850, 610	974, 550	376, 000			
871	2, 242, 415	10, 870, 041		8, 627, 62		
872	4, 101, 708	4, 938, 420		836, 71		
873	25, 482, 181	1, 765, 770	23, 716, 361			
874	9, 347, 410	7, 269, 926	2, 077, 484			
876	8, 389, 584	11, 891, 681	444 444444	3, 002, 09		
876	20, 142, 515	8, 356, 398	11, 786, 117			
677	14, 722, 378	19, 221, 108		4, 496, 73		

Imports and exports of the precious metals in Italy, 1878-186 (according to the customs records).

It has already been mentioned that Professor Ferraris has called attention to the errors of the customs statistics on the exports and imports of the precious metals in Italy, and has made an endeavor to secure statistics from other sources which certainly come closer to the facts. These latter are based upon statements of the gold and silver shipments of the railroads and steam-ship companies through whose hands remittances pass.

The result of his investigations for the years 1883, 1884, 1885, and the first five months of 1886, was as follows:

	1883.	1884.		1885.	1886. (First 5 mos.)
Imports of gold	Lire. 40, 038, 683 17, 601, 352	Lirs. 19, 606, 846 19, 460, 239	Imports of gold	Lire. 12, 936, 016 129, 315, 172	Lire. 9, 708, 301 8, 268, 511
Excess of exports	23, 477, 321	146, 607	Excess of imports	115, 379, 156	1, 439, 790
Imports of silver Exports of silver	62, 933, 530 8, 772, 204	9, 272, 853 27, 438, 723	Imports of silver Exports of allver	121, 8 <b>93</b> , 768 180, 315, 280	15, 4¢7, 498 28, 017, 618
Excess of imports Excess of exports	54, 161, 326	18, 100, 870	Excess of imports Excess of exports	8, 421, 513	11, 549, 929

The customs statistics, on the other hand, indicated for 1883 an excess of gold imports of 33,701,300 lire, and of silver imports of 42,062,095 lire; for 1884 an excess of gold imports of 8,660,700 lire, and an excess of silver exports of 13,585,525 lire; for 1885 an excess of gold exports of 89,639,100 lire, and an excess of silver imports of 18,607,125 lire. For the first five months of 1886 they indicated an excess of gold imports of 509,000 lire, and of silver imports of 2,710,240 lire.

Imports and exports of the precious metals in the United States, 1850-'51-1884-'85.

•	Į	G	old and ally	6T.
Average of the fiscal years.	i in	mporte.	Experts.	Excess of experts.
1851-'55	#5 10 24	, 151, 817 , 383, 770 , 112, 923	439, 432, 522 50, 569, 841 43, 611, 777	\$34, 250, 705 49, 204, 671 19, 496, 856

Imports and exports of the precious metals in the United States, &c .- Continued.

	}	G	old.		Silver.		
Fiscal years.	Importe.	Exporte.	Excess of imports.	Excess of exports.	Imports.	Exports.	Excess of exports.
1871	8, 717, 488 8, 682, 447 19, 503, 137 18, 696, 793 7, 992, 709 26, 246, 234 18, 830, 215 5, 624, 948 80, 758, 296 109, 081, 259 17, 784, 149 22, 831, 817	\$66, 686, 206 49, 546, 760 44, 856, 715 84, 043, 420 66, 980, 977 31, 177, 050 26, 590, 374 9, 204, 455 4, 587, 614 8, 639, 025 2, 565, 182 32, 587, 880 11, 600, 888 41, 081, 857 8, 677, 892	94, 125, 760 1, 037, 834 77, 119, 871 97, 466, 127 1, 780, 174	14, 539, 28a 53, 284, 184 28, 184, 341 344, 140	5, 026, 281 12, 798, 490 8, 951, 769 7, 203, 924 7, 943, 972 14, 528, 180 16, 491, 099 14, 671, 052 12, 275, 914 10, 544, 228 8, 095, 326 10, 755, 242		\$17, 369, 81, 25, 302, 56, 26, 913, 36, 21, 17, 947, 24, 17, 365, 28, 15, 043, 68, 8, 044, 57, 5, 738, 77, 1, 227, 98, 6, 297, 47, 8, 784, 26, 9, 464, 20, 11, 466, 36, 17, 263, 90, 66
A verage of.  1964-'70 1871-'75 1976-'80 1881-'85	11, 496, 679 28, 790, 500	58, 757, 487 52, 423, 016 15, 089, 708 19, 263, 750		47, 489, 903 40, 924, 337	5, 460, 798 9, 678, 375 13, 184, 048 12, 108, 078	16, 818, 279 81, 916, 112 12, 470, 101 21, 739, 144	11, 848, 48; 23, 241, 73; 6, 488, 06; 10, 631, 00

In the official statistics of the United States separate statements or the export of domestic gold and silver were not made before the year 1864. We have, therefore, taken the two metals together up to that year. The distinction between the export of precious metals of domestic and of foreign production is of no importance for our purposes. It is obviously of no consequence for the monetary conditions of a country whether the gold and silver exported from it has originally been produced there or elsewhere. Moreover, the authorities in the United States themselves doubt whether the distinction, as made in their statistics, rests on a better foundation than uncertain surmise.

Taking then the recorded import and export of the precious metals in the whole period from 1850-'51 to 1884-'85, we find-

The production of silver in the United States did not begin to attain a considerable development till the close of the decade 1860-70, and up to that time we may assume that the precious metals produced in the United States were almost exclusively gold. Assuming this, we are able to state approximately the exports and imports of gold and silver in the United States for different periods, as follows. Our calculations are made in German gold:

Periode.	tte	i Mi	811	ver.	Gold an	d ellver.
2 or louis.	Importa.	Exports.	Imports.	Exports.	Imports.	Exports.
2851-'55	Marks. 58, 600, 000 100, 100, 600 233, 500, 600 252, 500, 000 241, 400, 000 562, 500, 000 847, 000, 000	54, 400, 600 78, 660, 900 858, 600, 900 1, 059, 500, 900 1, 190, 800, 900 215, 800, 900 404, 500, 900	######################################	Marks. 773, 700, 000 1, 173, 800, 000 418, 300, 000 438, 700, 000 670, 200, 000 476, 100, 000 477, 500, 000	10 00 21 00 40 00 80 00 44 00 82 00 1, 10 00	Marks. 828, 100, 000 1, 251, 400, 000 1, 276, 800, 000 1, 495, 200, 000 1, 771, 000, 000 791, 900, 000 882, 000, 000
Total	2, 350, 800, 000	8, 871, 600, 000	1, 107, 100, 000	4, 424, 300, 000	3, 502, 900, 000	8, 195, 900, 00

Imports and exports of the precious metals in the German Customs Union, 1872-'85.

•			Bilver.				
		L.	Imports.	Exporta.	Excess of imports.	Rucess of exports.	
1884 18, 424, 000	29, 683, 000	00 00 00 33, 000 37, 000 35, 000 78, 000	30, 320, 900 23, 940, 900 29, 860, 900 40, 900, 900 32, 750, 900 18, 340, 900 13, 205, 900 6, 518, 900 6, 811, 900	134, 100, 000 71, 765, 000 38, 880, 000 35, 334, 000 19, 656, 000 27, 924, 000 40, 200, 000 21, 084, 000 17, 503, 000 14, 362, 000 20, 662, 000 31, 379, 000	13, 200, 000 10, 204, 000 12, 076, 000	21, 126, 009 8, 560, 000 12, 294, 000	

Figures both for imports and exports are inclusive of precious metals in bars, scraps, and coin.

It is admitted that these figures are incomplete, but we have felt in duty bound to insert them for the sake of completing our statements.

In conclusion, we insert summary tables of the recorded exports and imports of gold and silver, as stated in the official publications of the Netherlands, Belgium, Russia, Austro-Hungary, the Scandinavian countries, and Spain.

		Gold and silver.					
Average of the years.	The Ne	therlands.	erlands. Belgium.				
	Imports.	Exports.	Imports.	Expects.			
1851-'65 1856-'60 1861-'65 1868-'70	17, 149, 000	18, 427, 871 16, 392, 899 13, 004, 681	Francs. *41, 834, 059 64, 146, 218 37, 410, 242 75, 151, 688 199, 223, 368	France. *57, 891, 068 188, 093, 408 134, 283, 694 28, 670, 656 18, 977, 963			
The Netherlands.			Belgium.				

		The Neth	erlands.			Belg	jam.		
Average of the years.	Gold.		Silver.		Gold.		Silver.		
	Imports.	Exports.	Imports.	Exporte.	Importa.	Exports.	Imports.	Exports.	
1876-'80 . 1881 . 1842 . 1683	Florins. 11, 213, 569 6, 638, 410 9, 985, 120 28, 342, 544 14, 074, 680	Florins. 2, 258, 168 7, 917, 920 4, 907, 987 767, 778 2, 904, 509	Florina 6, 603, 793 2, 429, 977 2, 639, 895 2, 808, 644 1, 767, 863	Plorins. 4, 239, 293 48, 526 60, 520 276, 757 1, 057, 525	France. 8, 813, 212 1, 299, 170 16, 422, 810 2, 470, 510 6, 748, 810	France. 928, 804 62, 000 19, 116, 780 16, 723, 360	France. 6,352,738 22,932,680 30,556,200 97,806,820 36,872,580	France. 786, 036 17, 539, 300 2, 349, 320 18, 321, 520 9, 786, 780	

<sup>\*</sup> Average for the years 1852-'55.

						Gold su	d silver.			
Years.	Austro-Rungary.						Russia   Exports   Excess of imports   Exces			
	Imp	orte.	Rı	orts.	Extess of imports.	Excess of exports.	Imports.	Exports.		Excess of exports.
1971	.j 59	I.	] 66	r. 00	Florine. 2, 895, 000	Florina.			ı	
1872	340	00 00	66	-00	,	29,644,000	13, 039, 000	7, 903, 000	5, 184, 000	
1873	40	00	81	00	9, 784, 000	********	20, 552, 000		5, 888, 000	
1874	19	00	18	- 00	991, 000	1 2222 -20	16, 630, 000			986, 000
1875	16	00	16	00	4 400 000	2,560,000				21, 594, 000
197d	35 30	00	30 15	00 00	4, 600, 000 14, 947, 000	**********				97, 525, 000
1877 1878	52	00	16	00	27, 052, 000				2 367 000	0, 201, 000
1979	63	90	10	00	54, 225, 000					
1880	32		22	00	9, 562, 000				2,000,000	16, 838, 000
1881	36		5	00	30, 592, 000		9, 946, 000	68, 988, 000		59, 042, 000
1682	22	00	48	00		26,817,000	9, 774, 000	90, 518, 000		70, 744, 000
1888	31	00	4	00	17, 587, 000		*6, 554, 000	*19, 938, 000		13, 384, 000
1884	12	00	19	●0	2, 780, 000		*5, 320, 000	*8, 458, 000	1, 862, 600	

<sup>\*</sup> European Russia only.

			G	old and silve	e.							
Years.		Scandinavia	n countries.			Spain.						
			Excess of imports.	Excess of exports,	Imports.	Exports.	Excess of im-					
1871* 1872* 1873* 1874* 1875	Orotens. 10,806,000 12,915,000 20,173,000 12,779,000 22,253,000 39,774,000	Orosent. 2, 085, 000 113, 000 18, 074, 000 8, 338, 000 12, 496, 000 40, 883, 000	Orosona. 8, 721, 000 12, 802, 000 8, 099, 000 4, 441, 000 9, 767, 000	1, 109, 000	Pesetas. 107, 584, 000 106, 416, 000 105, 404, 000 63, 362, 000 92, 129, 000 12, 011, 000	Pesstas. 8, 543, 000 2, 502, 000 6, 372, 000 6, 452, 000 4, 315, 000	Peartas. 99, 051, 000 103, 914, 000 90, 032, 000 50, 910, 000 87, 913, 000					
1877 1878 1879 1896 1881	23, 222, 000 26, 054, 000 84, 358, 000 26, 879, 000 15, 063, 000	10, 425, 400 11, 537, 000 ,20, 007, 000 8, 955, 000 12, 136, 000	6, 796, 600 14, 517, 000 14, 351, 000 17, 924, 000 2, 927, 000		49, 520, 000 88, 882, 000 84, 079, 000 89, 336, 000 10, 478, 000	4, 232, 000 2, 083 000 2, 286, 000 3, 061, 000 12, 786, 000 6, 490, 000	7, 750, 000 47, 437, 000 36, 596, 000 81, 018, 000 76, 600, 000 8, 983, 000					
1882 1883 1884	11, 763, 000 15, 089, 000 10, 922, 000	8, 131, 000 6, 851, 000 4, 027, 000	8, 632, 000 8, 238, 000 6, 895, 000		40, 917, 000 35, 171, 946	7, 103, 000 4, 154, 000 4, 392, 768	38, 814, 000 30, 778, 478					

<sup>\*</sup> Exclusive of the imports and exports of Denmark, which have not been ascertained for the years 1871-74.

If we now summarize the total imports and exports of the precious metals in the various countries for recent years, we get in round numbers the following results for the periods 1871-75 and 1876-84:

Periods.	Imports of precious metals.	Exports of precious metals.	Excess of imports.	
1871-'75 1876-'84	Marks. 9, 103, 200, 000 12, 187, 100, 000	Marks. 7, 441, 800, 806 10, 895, 100, 800	Marks. 1, 061, 400, 000 1, 742, 000, 000	
Total	21, 240, 300, 000	17, 836, 900, 000	8, 403, 400, 000	

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# PART V.

THE SUPPLY AND QUANTITY IN CIRCULATION OF THE PRECIOUS METALS IN CIVILIZED COUNTRIES.

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# 1. HOLDINGS OF THE PRECIOUS METALS BY THE MORE IMPORTANT BANKS.

In the preceding parts (excepting those which considered the ratio of the precious metals and the coinage at the mints) we have had to do, in the main, with more or less uncertain estimates. In the present part we are able, to a very considerable extent, to give exact figures. This is beyond doubt the case with the statements of the holdings of gold and silver by the great banks and by certain Government treasuries. In former times these holdings were treated as important secrets, whose publication might bring serious damage, not only to the banks themselves, but to the commercial community in general. This fear has gradually disappeared, and publicity is now almost without exception a matter of course.

Before the depreciation of silver in the years after 1870, gold and silver holdings were not separately stated in the returns of the banks, as no practical interest attached to such a distinction. The situation has now changed, and most banks state the proportion of gold and silver in their holdings; and where this is not done regularly, at least no secret is made of it.

It goes without saying that a great interest attaches to the cash holdings, not only of individual banks, but of all institutions which deal in and hold large sums of coin, while similar interest attaches to the changes in the holdings. The supply of coin in the pockets and the tills of the general public of a country undergoes little change, barring unusual contingencies. Considerable changes take place in it only in the course of longer periods of time. On the other hand, important shiftings constantly take place in the coin holdings of the great banks, and these shiftings are important for the policy of the banks themselves, and for the business interest of the community at large. We therefore directed our attention at the very outset of the present publication to the compilation of the varying coin holdings of the banks, especially since 1871. In regard to the Bank of England, the Scotch and Irish banks of issue the Bank of France, and the national banks of the United States, etc., sufficient informatian was readily obtained from the well-known statistical sources for those countries. In regard to other banks, it would perhaps have been possible to secure the desired information from scattered notices in newspapers or annual reports. Such a proceeding, however, would have involved much labor and time, and yet would hardly have secured the desired result. We have asked, therefore, the officers of the remaining large banks to do us the favor to prepare and forward to us the desired detailed statements, arranged in a specific form. Our request has been most willingly granted, and we are enabled to present the figures of the cash holdings and note circulation of the banks in as complete and exact a form as could possibly be wished. This holds good for the Bank of the Netherlands, the Belgian Bank, the Italian banks of issue, the Swiss banks of issue, the Austro-Hungarian Bank, the Russian Bank, the National Bank of Denmark, the Norwegian Bank, the Imperial Bank and the private banks of Sweden. In regard to the Imperial Bank of Germany, detailed statements are to follow.

Side by side with the figures as to coin holdings we give statements of the contemporary total note circulation of the banks and of the amount of notes not covered by coin. The latter amount has been calculated in the usual manner, and of course can alone be counted as part of the circulation medium, if the coin holdings of the banks are also counted as part of the monetary supply. We mention this, because sometimes both the total note circulation and the coin holdings of banks are counted in reckoning the quantity of money in circulation; a proceeding which causes that quantity to appear larger than in fact it is.

On the other hand, it must be remembered that the designation "notes not covered by coin," is better than "uncovered notes," since the notes are covered not only by cash in the bank, but also by the securities authorized by the various statutes. Yet even the former designation is not quite exact, since the bank's coin is not destined solely to the redemption of notes issued. It is pledged not only to the immediate payment of notes issued, but also to the payment of all obligations that may come due on demand. Deposits especially are to be considered, since the creditors have the right to demand the immediate repayment of these as much as of bank notes. Checks are, in this respect, exactly similar to notes. Since the practice of deposits and the use of checks has come into increasing use in modern times, it is no longer proper to judge of the solvency of a bank of issue solely from the proportion of coin to notes issued; the essential thing is the proportion of coin to the total of obligations payable on demand. The new Swiss law on bank notes has made a sound provision in this respect by enacting that every bank shall keep in coin 40 per cent. of the notes issued, the rest of the coin remaining available for other purposes. The legislation of the Netherlands provides that the banks shall keep at least 40 per cent., not only of the notes issued, but also of all obligations payable on demand.

In the tables we have followed the usual plan of comparing the coin holdings, not with the sum of all obligations payable on demand, but with the excess of notes issued above the coin held; yet we think it necessary to call attention to the importance of the deposit obligations

as well.

Banks of the United Kingdom."

\* In this table, and in those following, "not covered by coin" will be understood to mean "not covered by coin and ballion."

Banks of Australasia.

Years.	Coin and bullion	Notes in circu- lation.	Yеаге.	Coin and bullion.	Notes in circu- lation.
1874 1875 1876 1877 1678	#8, 275, 720 8, 629, 678 9, 605, 336 8, 738, 651 8, 365, 272 10, 306, 760	£4, 116, 334 4, 257, 068 4, 228, 854 4, 338, 694 4, 383, 071 4, 087, 485	1880 1681 1882 1883 1884	#12, 183, 652 11, 247, 502 10, 788, 060 10, 554, 768 14, 183, 400 18, 177, 985	£4, 383, 128 4, 907, 514 5, 346, 633 5, 466, 862 5, 409, 891 5, 623, 205

Bank of France.

#### Swice banks of issue.

	Date of bank report	o	oin and bullion	·	Notes,		
Yours.	(statements are Weekly).	trac	Silver.	Total.	Total.	Not covered by cols.	
1879 1880 1881	End of Decemberdo	83, 197, 000 34, 542, 000		France. 37, 890, 000 23, 315, 000 34, 094, 000 41, 767, 000 45, 497, 000 54, 591, 000 54, 591, 000 63, 422, 000 60, 838, 000 72, 729, 000 65, 794, 000 67, 282, 000	France, "66, 000 01, 000 13, 000 70, 000 34, 000 78, 900 88, 000 12, 000 57, 000 57, 000	Frances. 40, 875, 006 42, 786, 000 46, 519, 000 44, 308, 000 48, 277, 000 42, 243, 000 45, 653, 000 46, 771, 000 48, 548, 000 47, 511, 001 54, 610, 0ut 45, 975, 000	

Italian Banks of Issue.

In Italy the reserve for notes in circulation includes not only the precious metals held by the banks, but also copper coins up to 1000 of the total to be covered, and the old note issues and government paper money, both of these latter being now redeemable at the public treasury in gold or silver. Taking these into consideration, we find that the uncovered note circulation of the Italian banks of issue was as follows, at the end of the years:

Years.	Circulation.	Years.	Circulation.	Years.	Circulation.
1861 1866 1871 1876	Lire. 58, 006, 849 42, 397, 325 270, 107, 510 845, 681, 585 853, 298, 625	1878	Lire. 856, 851, 912 409, 482, 973 418, 128, 425 438, 848, 645	1882 1883 1884 1865	Lire. 428, 870, 437 344, 385, 458 404, 751, 988 514, 786, 778

By an act of April 7, 1881, and by regulations for the execution of that act, of date June 16, 1881, and March 1, 1883, the Government was empowered to issue 340,000,000 lire of Government paper money—240,000,000 lire in 10-lire pieces and 100,000,000 lire in 5-lire pieces. The issue began in April, 1883. The coin holdings of the Government treasury amounted, on December 31, 1883, to 467,069,283 lire in decimal coins and 8,197,623 lire in other coins, chiefly old Bourbon piasters; on December 31, 1884, to 355,606,321 and 26,821,589 lire, respectively; on December 31, 1885, to 222,000,000 lire and 77,000,000 lire, respectively.

#### National Bank of Belgium.

1		C	oin and builties	և [	<b>Ma</b>	las,
Years.	Data of bank report.	Gold	Silver.	Total.	Total.	Not covered by oaks.
		France.	France.	France.	Franct.	Frence.
900	End of December	1, 421, 500	61, 600, 500	EL, 024, 800	*** *** ***	54, U76, 000
B\$1	do			69, 048, 500	30	48, 790, 500
.006	do	,	.,	55, 074, 008	10	70, 002, 001
879	do	34, 463, 000	71, 152, 800	93, 615, 000	10	106, 913, 000
671	do	88, 885, 000	74, 286, 000	123, 271, 000	10	105, 410, 00
873	do	87, 879, 000	77, 701, 000	115, 67c, 000 °	10	182, 002, 0ut
ETT				139, 844, 000	00	212, 181, 40
	End of December	37, 806, 000	67, 887, 000	-105, 493, 000	90	215, 093, 80
1974	End of June	41, 160, 000	80, 87H, 000	103, 138, 000	10	196, 160, 00
	End of December	58, 444, 000	56, 803, 000	118, 247, 000	00	210, 627, 80
<b>876</b>	Kud of June	<b>86, 685, 000</b>	56, 03A, 900	122, 753, 000	00	199, 430, 00
	End of December	77, 905, 000	44, 757, 000	122, 622, 000	00	217, 592, 00
876		77, 280, 000	5R, 507, 000	133, 637, 000	00	194, 637, 0.
	End of December	79, 040, 000	37, 635, 000	116, 675, 000	90	247, 885, 00
\$77		69, 070, 090	35, 960, 000	103, 050, 000	80	248, 485, 90
	Rud of December	61, 200, 000	. 88, 050, 000	99, 250, 000	86	343, 858, 0
878	End of June	80, 580, 000	29, 970, 000	90, 550, 000	00	384, 570, 0
	End of December	#1, 330, 000	37, 840, 600	99, 170, 000	00	214, 450, 0
879	Rud of June	63, 880, 000	40, 500, 009	103, 380, 000	80	236, 570, 0
	End of December	71, 635, 000	33, 780, 000	105, 415, 900	00	229, 560, 0
300	End of June	61, 655, 000	33, 745, 000	94, 400, 000	80	216, 670, 0
	End of December	73, 063, 000	25, 727, 000	98, 790, 000	80	241, 180, 9
<b>881</b>	End of June	77, 510, 000	30, 315, 000	100, 825, 000	00	227, 550, 0
	End of December	77, 840, 000	22, 135, 000	99, 475, 000	00	255, 280, 0
983	End of June	62, 445, 000	21, 815, 000	94, 260, 000	00	330, 925, 0
	End of December	71, 885, 000	27, 560, 000	99, 445, 000	00	254, 255, 9
188		69, 220, 000	22, 600, 000	91, 920, 000	89	244, 800, 0
	End of December	71, 885, 900	26, 215, 000	98, 100, 000	99	250, 510, 0
DD4	Bud of June	64, 886, 008	30, 465, 000	96, 380, 000	80	244, 940, 0
	End of Decumber	65, 925, 000	30, 610, 600	96, 635, 000	00	201, 228, 0
886	End of June	80, 010, 000	36, 410, 000	98, 420, 000	00	250, 070, 0
_	End of December	69, 500, 000	32, 700, 000	103, 200, 000	00	364, 800, 0
005	Rad of June	64, 700, 000	40, 000, 000	104, 700, 860		255, 200, 8

#### Bank of the Netherlands.

1		Florina.	Floring.	Floring.	Plories.	Plorine.
1850 [	End of December		79, 392, 235	78, 388, 225	68, 096, 915	
1861	End of June		92, 477, 888	92, 477, 886	51, 970, 990	j
	End of December		80, 548, 845	90, 548, \$45	60, 491, 445	******
1856	End of June		74, 278, 687	74, 278, 687	91, 478, 045	17, 180, 350
	End of December		OL 249, 588	68, 349, 585	79, 401, 145	11, 382, 557
1861			99, 864, 208	89, 864, 266	100, 574, 100	709, 834
	End of December		87, 406, 449	87, 408, 449	102, 350, 630	14, 054, 171
1865	End of June		96, 439, 653	95, 439, 653	114, 800, 005	10, 420, 415
	End of December		74, 906, 581	78, 906, 931	186, 950, 230	29, 041, 796
1870	End of June		85, 144, 360	95, 144, 960	130, 684, 660	85, 400, 530
1010	End of December		100, 957, 300	100, 957, 309	144, 100, 040	34, 148, 731
1871		**********	116, 724	118, 138, 726	146, 337, 490	20, 198, 764
####****	End of December	E 600 E10	11, 458	143, 823, 971	157, 141, 810	18, 317, 828
1872	Ped of Tree	5, 632, 513	16, 177	153, 915, 450	164, 622, 415	10, 706, 985
1012		27, 969, 273				
	End of Docember		75, 525	120, 832, 798	156, 802, 630	37, 860, 121
1878	End of June	27, 883, 070	18, 971	105, 911, 450	150, 722, 950	58, 811, 500
	End of December	39, 972, 292	11, 280	106, 492, 572	167, 951, 996	50, 458, 493
1874		66, 297, 659	18, 847	133, 256, 106	166, 562, 969	36, 306, 874
	End of December	55, 297, 866	E, 088	127, 513, 974	175, 197, 000	37, 663, 626
1878		61, 180, 968	10, 868	141, 361, 856	180, 698, 500	30, 336, 734
	End of December	69, 250, 600	.7, 791	158, 768, 421	186, 101, 566	37, 334, 174
1476	End of June	64, 457, 203	17, 588	161, 964, 890	*** "25, 969	10, 251, 070
	Ead of December	64, 257, 962	11, 200	158, 619, 241	39, 430	86, 714, 100
1877		74, 792, 888	11, 035	161, 623, 901	13, 236	48, 728, 334
	End of December	50, 509, 237	17, 907	127, 276, 834	19, 436	72, 742, 401
1878	End of June	44, 298, 531	10, 253	114, 937, 783	17, 350	78, 606, 567
- 1	End of December	44, 634, 172	.7, 858	131, 852, 016	96, 590	64, 244, 865
1879	Rod of June	68, 887, 689	10, 300	144, 147, 988	85, 580	41, 177, 501
	End of December	78, 425, 259	11, 513	154, 824, 772	16, 800	25, 341, 916
1880		80, 378, 888	10, 905	161, 729, 771	(1), 960	26, 522, 179
-	End of December	56, 861, 791	14, 426	141, 700, 217	10, 505	56, 843, 286
1061		50, 440, 142	10, 566	140, 086, 798	1 13, 440	80, 884, 732
	End of December	18, 156, 479	15, 713	107, 194, 192	\$1, 100	86, 746, 906
1803		21, 868, 007	18, 500	113, 011, 537	11, 536	00, 519, 900
	End of December	6, 272, 728	7, 767	97, 820, 495	39, 295	91, 518, 800
1800		45, 848, 971	6, 212	141, 054, 183	71,490	44, 817, 447
	End of December	23, 506, 980	28, 465	116, 879, 425	(8, 110	70, 848, 663
1884	Rad of June	48, 437, 446	17, 583	188, 225, 020	19, 250	63, 234, 221
	End of December	27, 146, 841	3, 017	120, 519, 858	38, 985	72, 968, 237
1805	Ead of June	41, 520, 577	12, 862	136, 824, 129	76, 675	47, 902, 746
	End of December	47, 904, 000	6,000	143, 820, 000	12,000	48, 612, 006
1800		77, 004, 000	72,000	175, 476, 000	MS, COM	22, 830, 800

Bank of Austro-Hungary (formerly the Privileged National Bank of Austria).

Imperial Bank and other banks of issue in Germany.

		Imperial	l (or Prussia	n) Bank.	Banks of issue, including Imper Bank.				
Years.	Date of bank report.		Not	ics.		Notes.			
		Coin and bullion.	Total.	Not covered.	Coin and bullion.	Total.	Not cov-		
851	End of December. 63, 248, 000		<i>Marks</i> . 61, 052, 000	Marks.	Marks.	Marks.	Yorks.		
	do								
	do			42 033 000					
	do			167, 001, 000					
	do			152, 417, 000		1, 066, 599, 000			
	do			381, 354, 000		1, 368, 800, 000			
	do			195, 510, 000		1, 360, 991, 000			
	do	610, 533, 000		227, 889, 000		1, 259, 940, 000			
	do				609, 909, 000	1, 050, 457, 000	440, 548, 00		
876	do	500, 592, 000	766, 107, 000	265, 515, 000	610, 910, 000	989, 170, 000	378, <b>260, 0</b> 0		
877			755, 279, 000	207, 348, 000					
	End of December	452, 173, 000	715, 830, 000	263, 657, 000					
878	End of June	509, 968, 000		162, 930, 000			267, 455, 00		
	End of December	472, 111, 000		191, 626, 000			297, 550, 00		
879	End of June	546, 083, 000	745, 095, 000	199, 012, 000	684, 564, 000	932, 466, 000	297, 902, 00		
	End of December	539, 373, 000	792, 808, 000	253, 435, 000			363, 684, 00		
880	End of June	582, 114, 000	814, 303, 000	232, 189, 000		1, 012, 027, 000			
	End of December	522, 417, 000		283, 701, 000	614, 939, 000	1, 007, 650, 000			
881	End of June	582, 188, 000		256, 996, 000	665, 043, 000	1, 036, 535, 000			
	End of December	514, 440, 000	859, 388, 000	344, 948, 000		1, 057, 953, 000	461, 372, 00		
882	End of June	569, 929, 000	828, 003, 000	258, 074, 000		1, 023, 854, 000	378, 619, 00		
	End of December	558, 730, 000	831, 131, 000	272, 401, 000	642, 391, 000	1, 033, 569, 000	391, 178, 00		
883	End of June	615, 499, 000	820, 428, 000	204, 929, 000	694, 586, 000	1, 012, 794, 000	31 <b>8, 208,</b> 00		
	End of December	558, 577, 000	829, 713, 000	271, 136, 000	643, 473, 000	1, 029, 831, 000	386, 358, 00		
884	End of June	612, 661, 000	819, 065, 000	206, 404, 000		1, 016, 750, 000			
	End of December	517, 828, 000	854, 137, 000	336, 309, 000	602, 069, 000	1, 061, 578, 000	459, 509, 00		
885	End of June	597, 103, 000	814, 427, 000	217, 324, 000	678, 196, 000	1, 012, 815, 000	334, 619, 00		
	End of December.	618, 242, 000		240, 683, 000	700, 976, 000	1, 061, 623, 000	360, 647, 00		
886	End of June	705, 190, 000	910, 130, 000	204, 940, 000		1, 107, 283, 000			

The directors of the Imperial Bank of Germany thought that they could not comply with our request, in so far as it inquired about the proportion of their gold holdings to their other coin holdings, in the same way as that request had been complied with by the other more important banks. The question of making public statements in regard to this proportion had been considered several years before, and it had been concluded to make no such statements, since the statute establishing the bank had not contemplated them.

In the absence of authentic statements we are compelled to make an estimate, probably close to the truth, of the gold holdings of the Imperial Bank. Such an estimate is needed the more, as foreign periodicals of high standing—for example, the London Economist, on February 7, 1885—put the holdings at a figure obviously too low, namely, £6,725,000. A notice published in September, 1880, which was not contradicted and whose accuracy we have no reason to doubt, states that the coin holdings of the Imperial Bank at that time consisted of 185,000,000 marks of imperial gold coin, 317,000,000 marks of thalers, and of 33,000,000 marks of imperial silver coins. Since that date it is clear that the bank has endeavored to diminish its holding of thalers by encouraging their circulation in the community and their use by public offices. This endeavor seems to have succeeded in part, for thaler pieces held by the post-office, which were in October, 1880, only 1,061,000 marks, amounted in October, 1884, to 1,809,000 marks, and in October, 1885, to 1,626,000 marks. It may be assumed that a similar increase in the use of thalers took place in the community at large.

We probably come fairly close to the truth if we estimate 260,000,000 to 280,000,000 of silver as the amount held by the Imperial Bank in its coin holdings.

The coin holdings of the remaining banks of issue in Germany were

ascertained to be as follows:

Years.	Gold coins of the Empire.	Thalers.	Bilver coins of the Empire.	Imperial treasury certificates.
October 1881	Morks. 79, 452, 000 80, 038, 000 77, 064, 000 77, 388, 000 77, 966, 000	Marks. 2, 309, 000 4, 290, 000 5, 124, 000 4, 811, 000 2, 716, 000	Morks. 1, 00%, 000 1, 129, 000 1, 430, 000 1, 602, 000 1, 067, 000	2, 539, 000 1, 044, 000 1, 125, 000 863, 000

Imperial Bank of Russia.

	7.44	Coin and l	oullion.	Credit	notes.		
Years.	Date of bank report.	Gold.	Süver.	Istoed.	Temporarily insued.	Funda.	
			n#.	Rublita	Rubles.	Rubles.	
870	Jenuary 1	128 1,58	126, 12	721, 788, 189		12, 000, 000,	
671	January 1	13 28	194, 55	715, 609, 884		7, 828, 712.	
373	Junuary 1	16 . 18	196, 65	724, 214, 040		1, 628, 712.	
878	Japuary 1	18 L 57	184L 25	763, 869, 451		1, 828, 712.	
	July 1	18 1.45	178.00	768, 869, 451		1, 828, 712.	
874		19 L 37 l	162, 46	702, 282, 436		8, 932, 712.	
	July 1	19 1,00	106, 00 (	785, 279, 669		1, 828, 712,	
875	Jenuaty 1	11 1.44	351, 49	797, 313, 480		1, 828, 712.	
	July 1	16 7. 60	784, 42	797, 318, 480		1, 828, 712,	
974		2005	190, 88	797, 318, 480		1, 828, 712,	
	July 1	14 1.82	163, 46	733, 908, 498		1, 714, 696.	
877		12 7, 12	382, 66	735, 222, 025	54, 801 110	81, 550, 112,	
	July 1	12 7.01	331, 43	734, 772, 025	112, 00 D	82, 415, 114.	
878		19 1,47	188, 22	784, 772, 025	305, 15 D	82, 300, 997.	
	July 1	11 1,27	775. 42	726, 910, 155	429, 60 P	82, 800, 997.	
879	January 1	18 7.05 [	342. 28	720, 265, 125	467, 65 D	28, 989, 693,	
	Jaly 1	14 L 85	368, 71	716, 515, 125	415, 65 D	25, 229, 698,	
886		15 1.64	744, 47	716, 515, 125	446, 00 D	19, 594, 968.	
	July 1	16 1.94	772.17	716, 515, 125	877, 00 0	19, 583, 838.	
881		17 7.92	207. 37	716, 515, 125	417,00 0		
	July 1	17 7, 22	318, 07	716, 515, 125	417,00 0		
882		17 L 76	370.53	716, 515, 125	417,00 9		
	July 1	11-,,1.88	380. 41	716, 515, 125	417,00 0		
883	January L.	170, 344, 384, 28	351, 06	716, 515, 125	417, 00 D		
	July 1	170, 844, 247, 17	ALC: U	710, 515, 125	417.00 0		
884	January 1	470, 844, 274, 77	220. 52	716, 515, 125	287, 00 0		
	July 1	170, 341, 811, 36	383, 98	716, 515, 125	357, OC 0		
885		170, 344, 826, 60	588, 69	716, 515, 125	857, Ot 0		
	July 1	170, 846, 052, 41	112, 68	716, 438, 849	830, 06-,0		
886	January 1		104, 42	716, 483, 849	830, 000, 000		
	July 1		100.00	716, 438, 849	880, 000, 000		

Since the year 1831 the "funds" account has disappeared from the public statements of the Russian Bank.

In regard to the temporary issues of credit notes, it should be said that the minister of finance has assigned to the bank, for their redemption, certain 5 per cent. Government securities to the amount of about 100,000,000 rubles; but this security is not to be actually transferred for the present.

The coin holdings of the Central Bank and of its branches, respectively, have been stated to us as follows:

			stral Book.	Branches.			
Teers.	Date of bank report.	Gold and all- ver.	Subsidiary coin.	Credit notes.	Coin and bullion.	Credit unten.	
1001	Jeosery 1	Eusblen. 5, 001, 425. 00	Rubles. 175, 185, 84	Rubles. 18, 153, 435	Rubles. 2, 940, 000	<u>Probles</u> 30, 319, 600	
1882	July 1	3, 791, 432, 17	234, 165, 80 56, 995, 22 119, 477, 42	71, 882, 877 73, 383, 750 78, 585, 285	1, 673, 146 1, 977, 660 2, 456, 660	54,784,000 22,107,000 57,271,000	
1003	January 1	529, 649. 37 841, 089. a0	96, 857. 60 149, 918. 44 30, 724. 56	77, 323, 769 72, 906, 818 49, 329, 451	2, 364, 600 3, 606, 600 4, 602, 600	22, 307, 061 113, 460, 091 34, 322, 601	
1865	July 1 Jacuary 1 July 1	503, 006, 00 27, 270, 615, 00	230, 219, 25 154, 640, 58 167, 894, 19	96, 841, 820 15, 143, 295 82, 062, 371	5, 076, 860 6, 842, 860 6, 849, 860	78, 601, 000 80, 991, 669 92, 961, 000	
1806	January 1	71, 165, 536, 40 62, 063, 715, 60	199, 762, 57 769, 913, 93	41, 641, 523 51, 468, 797	6, 351, 009 7, 413, 000	97, 748, 000 111, 202, 000	

Bank of Sweden.

		Ce	da ek	d belli	Notes.		
Years.	Date of bank report.	Gold.	Allver.		Total.	Total.	Not covered by cein.
1851	do	494, 509 232, 817 199, 608 2, 797, 670 6, 997, 812 11, 476, 972 6, 657, 715 14, 915, 800 15, 887, 131 10, 625, 678 10, 343, 798 8, 764, 499 5, 914, 727 11, 439, 683 11, 841, 076 11, 639, 489 11, 485, 236 12, 102, 795 13, 119, 484 13, 744, 600	17 16 30 21 11 16 16 16 16 16 16 16 16 16 16 16 16	1. 37 42 88 45 56 85 98 40 71 36 32 60 29 25 67 82 16 96 90	Orozona. 16, 295, 225 19, 402, 225 19, 402, 205 21, 799, 853 15, 657, 828 23, 939, 696 30, 813, 770 22, 872, 855 29, 252, 771 26, 460, 067 20, 530, 910 14, 286, 456 12, 245, 927 10, 750, 852 16, 874, 708 16, 226, 085 15, 597, 171 16, 967, 052 14, 851, 401 16, 858, 000 16, 454, 000		Crourne, 15, 248, 412 14, 216, 851 21, 747, 454 15, 487, 454 14, 851, 824 5, 369, 641 22, 388, 970 15, 372, 845 14, 105, 896 15, 847, 308 15, 847, 308 15, 704, 630 14, 601, 780 29, 177, 660 29, 177, 660 21, 413, 257 20, 717, 071 21, 922, 130 22, 488, 000 26, 383, 000

The "Enskilda Bankerna," as the private banks of issue are called, were not required to redeem their notes in gold till 1875. Their cash, however, consists mainly of notes of the Bank of Sweden, which are legal tender. In the following table their holdings of such notes are stated:

		Coin and notes of the Bank of Sweden.						Muse.		
Years.	Date of bank report.	Gold	ı.	Notes of the bank.	Total.		Total.		Not covered by coin.	
1875	End of June	Orosp 6, 1?**	ne. Tés	£. 104	1.	r. 170	51		Orosens. 52, 197, 086	
1876	End of December	8, 94 8, 05	168 191	160 102	i	171 161	6.		50, 888, 105 58, 184, 768	
1877	End of December End of June End of December	8,71 8,61 8,76	124 25 154	139 124 197	1. 1. 1.	163 149 151	6 6 6		52, 508, 491 51, 575, 768 42, 004, 760	
1878	End of June	8, 57 8, 72	191 171	.gn .32	11:	-80 103	41 41		41, 041, 285 87, 181, 014	
1879	End of December	8, 28 8, 61	198 104	152 49	11	47 58	4		85, 542, 606 40, 605, 678	
1890	End of June End of December	8, 66 8, 66	100   131	45 103 49	11 11 11	46 34 40	44 54 41		87, 804, 496 41, 879, 782	
1881	End of June End of December End of June	8, 38 8, 01 7, 80	197 178 160	1 173	i	51 .90	44		41, 550, 646 40, 918, 365 40, 683, 711	
1888	End of December	8, 28 8, 28	160 75	89 31	ñ	13	51 65		44, 826, 891 43, 869, 887	
1884	End of December	8, 60 8, 20	00 84	1 00	2.	00 13	51 51		43, 880, 000 42, 911, 796	
1885	End of December End of June	8, 29 7, 89	69 27	41 51	li R	80 78	61 50		44, 093, 809 42, 890, 261	
1884	End of December End of June	7, 88 7, 84	00	1 00	n	00	46 46		41, 657, 000 41, 064, 000	

Bank of Norroay.

			Coin and	bullion.		Notes.		
Years.	Date of bank report.	Gold.	Silver.	Total.	Of which deposits abroad.		Total.	Not covered by coin.
		Orowns.	Orosona.	Crouns.	Orospae.			Orouna.
	End of December		8, 714, 514	8, 714, 514	1, 720, 346	1	58	11, 014, 654
851	do	******	9, 166, 830	9, 166, 330	1, 815, 821	:	37	11, 569, 057
855	do		13, 600, 536	18, 600, 636	9, 495, 554	1	50	17, 860, 53
860	do	***********	18, 916, 216	13, 916, 216	4, 639, 678	;	Ю	11, 930, 824
861	do		12, 758, 872	12, 758, 372	4, 534, 040	:	72	12, 440, 300
	do		19, 534, 572	19, 534, 572	3, 445, 008	:	24	8, 989, 850
	do	**********	16, 207, 528	16, 207, 528	4, 202, 864	:	14	12, 180, 410
197L]	do		26, 355, 352	26, 355, 852	8, 746, 660	1	76	7, 626, 32
	do		29, 887, 376	29, 887, 876	9, 694, 882	1	12	8, 628, 614
873	do	28, 231, 048	6, 141, 788	84, 873, 736	8, 858, 680	4	92	12, 804, 79
874	do	33, 560, 208	1, 115, 976	84, 676, 184	14, 098, 748	i ·	90	11, 193, 49
	do		215, 744	24, 959, 520	10, 500, 892	1	32	12, 279, 99
876	do	82, 123, 020	171.940	32, 295, 860	10, 104, 828	1	08	7, 373, 04
	do	21, 422, 153	101,168	21, 583, 718	6, 887, 478	;	24	14, 725, 30
878	do	18, 948, 553		18, 948, 653	5, 295, 403	1	87	12, 019, 18
879	do	26, 097, 439		26, 097, 439	8, 873, 664	1	23	6, 622, 48
Pe0	do	33, 482, 366		33, 482, 866	10, 330, 571	1	76	5, 281, 80
881	End of June	28, 797, 676			9, 240, 178	←	76	14, 854, 20
	End of December	29, 013, 126	***** *****	29, 913, 126	8, 771, 374	1	64	7, 740, 72
882		30, 396, 209		80, 396, 209	8, 559, 247	4	96	12, 024, 98
	End of December	82, 961, 096		32, 861, 096	10, 46L, 065	4	56	7, 717, 65
883	Rnd of June	31, 428, 384		31, 423, 834	10, 186, 948	۱.	11	10, 752, 27
1	End of December	84, 871, 372		34, 871, 872	11, 772, 914	4	26	6, 084, 25
884	End of June	84, 597, 375			11, 296, 916	4	48	9, 223, 87
	End of December	84, 800, 305		84, 800, 805	11, 077, 441	1	28	4, 688, 21
885	End of June	80, 595, 452		80, 505, 452	9, 951, 527	4	96	12, 247, 55
	End of December	28, 675, 609		28,-675, 609	9, 267, 631	1	56	8, 471, 84
886	End of June	27, 552, 765			9, 236, 113	Ιi	10	11, 722, 06

#### Bank of Denmark.

		Co	oin and bulli	Notes.		
Years.	Date of bank report.	Gold.	Silver.	Total.	Total.	Not covered by coin.
852	End of December	Crowns.	Crowns. 14, 612, 320	Crowns. 14, 612, 320	Crowns. (40, 000, 000)	Crowns. 25, 387, 68
860	do		21, 852, 000	21, 852, 000	46, 681, 000	24, 8 <b>2</b> 9, 00
	do		19, 734, 000	19, 734, 000	45, 644, 000	25, 910, 00
	do		28, 137, 000	28, 137, 000	53, 647, 000	25, 510, 00
872	do	15 204 000	39, 403, 000 27, 921, 000	39, 403, 000 43, 125, 000	61, 885, 000 67, 508, 000	22, 48 <b>2</b> , 00 24, 383, 00
873	do	28, 553, 000	21, 073, 000	49, 626, 060	75, 794, 000	26, 168, 00
874	do	33, 360, 000	15, 061, 000	48, 421, 000	71, 636, 000	23, 215, 00
875	do	<b>88, 885, 0</b> 00	8, 032, 000		70, 581, 000	24, 164, 00
	do		2, 156, 000	47, 126, 000	72, 318, 000	25, 192, 00
	do		3, 678, 000 3, 820, 000	37, 437, 000 41, 487, 000	63, 015, 000 66, 414, 000	25, 578, 00 21, 927, 00
879	do	41, 988, 000	3, 623, 000	45, 611, 000	69, 399, 000	23, 788, 00
880	do	52, 487, 000	3, 010, 000	55, 495, 000	78, 588, 000	23, 091, 00
	do		<b>2</b> , 85 <b>6</b> , 000	51, 658, 000	75, 219, 000	23, 561, 60
.882	End of June		3, 199, 000	47, 401, 000	71, 752, 000	24, 351, 00
883	End of December	48, 214, 000 49, 059, 000	<b>2</b> , 92 <b>4</b> , 000 3, 079, 000	51, 148, 000 51, 137, 000	76, 213, 000	25, <b>075, 0</b> 0
000	End of June End of December	48, 058, 000 48, 737, 000	2, 784, 000	51, 521, 000	75, 531, 000 75, 566, 0, 0	24, 3 <b>97</b> , 00 24, 045, 00
884	End of June		3, 078, 000		74, 915, 000	
	End of December	46, 509, 000	3, 090, 000	49, 599, 000	<b>72, 6⊱8, 000</b>	23, 089, 00
885	End of June	43, 514, 000	3, 479, 000	46, 993, 000	72, 058, 000	25. 065, 00
	End of December	46, 264, 000	3, 385, 000	49, 649, 000	73, 482, 000	23, 533, 00

# COIN AND BULLION HELD AND NOTES ISSUED BY THE TREASURY AND THE NATIONAL BANKS OF THE UNITED STATES.\*

#### 1.—The Treasury.

Years.	Date of report.	Gold, coined and uncoined.	silver	Other silver coins and silver bars.	Total allver.	Per cent. of silver to total coin and bullion.	Tuno 30	Price of 100 dollars gold on Jan. 1 in notes.
1876 1×77 1878 1879 1880 1881 1862 1883 1884	October 1 October 1 Junuary 1 November 1 November 1 November 1 November 1 November 1 November 1	112, 703, 342 133, 679, 349 167, 781, 909 148, 485, 473	\$12, 155, 205 17, 249, 740 47, 156, 588 66, 576, 378 92, 414, 977 116, 036, 450 142, 926, 725 163, 817, 342	\$6, 029, 367 7, 425, 454 15, 777, 937 15, 169, 611 30, 820, 561 29, 409, 262 30, 761, 985 31, 648, 789 33, 992, 254 26, 806, 072	\$6, 029, 367 7, 425, 454 27, 933, 142 32, 419, 351 77, 977, 149 95, 985, 640 123, 176, 962 147, 685, 239 176, 918, 979 190, 623, 414	36. 4 45. 4 48. 4	369, 772, 284 359, 764, 332 346, 681, 016 346, 681, 016 346, 681, 016 346, 681, 016 346, 681, 016 346, 681, 016 346, 681, 016	100.00 100.00 100.00

<sup>\*</sup>In the statements of the coin holdings of the Treasury, gold for which gold certificates are outstanding is not included. This holding of gold amounted, on November 1, 1882, to \$6,962,280; on November 1, 1883, to \$48,869,940; on November 1, 1884, to \$85,301,190; on November 1, 1885, to \$106,465,420. On the other hand, gold certificates held by the national banks are counted as part of their coin reserve. A provisional report of the Director of the Mint of date August 19, 1886, gives the coin holdings of the Treasury, the national banks, and other banks, as follows:

	Gold.	Silver.
In Treasury	\$231, 915, 699 104, 530, 587 254, 259, 840	\$213, 625, 810 9, 670, 567 88, 953, 969
Total	590, 706, 126	812, 250, 346

#### 2.—State and National Banks, separately and combined with the Treasury.

The banking system of the United States underwent a number of different phases up to the establishment of the national banking system in 1863. Until the discovery of the rich gold fields in California, and the subsequent discovery of the silver mines of Nevada, the coin holdings of the banks were comparatively small; and during the period 1863–778, when inconvertible paper money was in circulation, the coin holdings of the banks were limited to the quantities needed for carrying on the few transactions made in that metal. The following summary statement gives some indications as to the state of things in earlier times:

						Coin.	Notes.
1851 in 8 1861 in 1 1866 in 1	379 State banks . ,601 State banks ,644 national bes	nks	••••••			\$34, 813, 958 48, 671, 048 87, 674, 507 9, 226, 832 13, 252, 998	\$107, 290, 214 155, 165, 251 202, 003, 767 280, 253, 818 315, 519, 117
1841 1851 1861 1866						••••••	40, 158, 353 30, 963, 858 165, 301, 656
		1	Vational bar	oks.	Banks	and Treasury	together.
Years.	Date of bank report.	COMM.		Notes.	Coin an	d bullion.	Notes.
		Gold.	Silver.		Gold.	Silver.	2,0,0,0
1876 1877	October 2		00, 000 00, 000	\$292, 200, 000 291, 100, 000		000, 000 300, 000	\$651, 000, 000 650, 800, 000

301, 900, 000 .

343, 834, 107 🕛

**36**0, 344, **2**50

362, 727, 747

352, 013, 787

333, 559, 813

315, 847, 108

323, 791, 674 \$158, 680, 355

253, 632, 511

294, 905, 569

260, 455, 297

273, 179, 117

277, 784, 954

335, 251, 499

194, 700 000

**\$**38, 879, 808

81, 472, 626

103, 008, 207

131, 411, 701

157, 933, 165

185, 012, 536

199, 744, 216

648, 600, 000

670, 472, 690

690, 515, 1**2**3

707, 025, 266

709, 408, 703

698, 694, 803

680, 240, 829

662, 528, 184

30, 700, 000

**\$6, 460, 557** 

8, 495, 477

7, 112, 567

8, 234, 739

8, 092, 557

9, 120, 602

10, 247, 926

\$35,039 201

102, 851, 032

107, 222, 169

94, 127, 321

97, 570, 037

117, 185, 407

161, 657, 121

October 1...

November 1.

November 1.

November 1.

November 1

November 1.

November 1.

ry 1 ...

1878 ....

1879 ....

1880 ....

1881 ....

1882 .... 1883 ....

1884 ....

1885 ....

Summary of holdings of gold by important banks, etc., at the close of the years 1872-1885 (so far as information is at hand).

Banks and treasuries.	1872.	1878.	1874.	1875.	1876.
Dank of England and Castal	Marks.	Marks.	Marks.	Marks.	Marts.
Bank of England and Scotch and Irish banks of issue	622, 012, 000	595, 442, 600	581, 932, 000	596, 241, 000	721 602 00
Atlatralian banks	022, 012, 000	158, 098, 000	166, 514, 000	172, 594, 000	731, <del>0</del> 93, 00 192, 107, 00
Bank of the Netherlands	47, 549, 000	67, 953, 000	94, 006, 000	117, 726, 600	109, 239, 00
Bank of Belgium	80, 303, 000	30, 245, 000	46, 755, 000	62, 324, 000	63, 232, 00
Bank of France	526, 960, 000	489, 040, 000	809, 680, 900	939, 446, 000	1, 224, 320, 00
Italian banks of issue and					_,,,
Italian treasury	73, 503, 000	73, 173, 000	72, 777, 000	58, 805, 600	60, 396, 60
Austro-Hungarian Bank	138, 808, 000	141, 055, 000	145, 483, 000	135, 708, 000	140, 444, 00
Bank of Sweden, and other	7 400 000	10 000 000	17 000 000	60 015 000	
banks of issue in Sweden Bank of Norway	7, 490, 009	16, 780, 000	17, 873, 000	22, 015, 000	21, 462, 00
Dank of Norway	inconsidera- ble.	23, 831, 000	21, 894, 000	16, 024, 000	24, 772, 00
National Bank of Denmark	17, 105, 000	32, 122, 990	87, 530, 000	43, 188, 000	50, 591, 000
Bank of Russia	597, 182, 000	618, 207, 000	639, 172, 000	643, 459, 000	891, 183, 00
				1	37, 200, 500
Banks and treasuries.	1877.	1878.	1879.	1880.	1881.
	Was be	Manha	Manha	Manha	Wash.
Bank of England and Scotch	Marks.	Marks.	Marks.	Marks.	Marks.
and Irish banks of issue	646, 861, 000	719, 123, 000	693, 410, 000	632, 672, 000	554, 710, 000
Australian banks	174, 773, 000	167, 305, 000	206, 135, 000	243, 673, 000	224, 950, 000
Bank of the Netherlands	85, 866, 000	75, 878, 000	124, 823, 000	96, 665, 000	30, 8 <b>6</b> 9, 00
Bank of Belgium	48, 960, 000	49, 064, 000	57, 308, 000	58, 450, 000	61, 872, 000
Bank of France	941, 680, 000	786, 880, 000	593, 280, 000	451, 415, 000	524, 557, 000
Italian banks of issue and					, ,
Italian treasury	61, 444, 000	63, 492, 000	61, 342, 000	62, 093, 000	57, G44, 000
Austro-Hungarian Bank	13 <b>4</b> , 752, 000	134, 749, 000	117, 264, 000	130, 021, 000	137, 451, 900
Bunk of Sweden, and other	10 710 000	10 500 000	00 500 000	02 000 000	00 700 000
banks of issue in Sweden		16, 500, 000 14, 572, 000	22, 566, 000	23, 280, 000	22, 109, 000
Bank of Norway	16, 351, 000 37, 979, 000	42, 375, 000	19, 939, 000 47, 237, 000	26, 046, 000 59, 048, 000	23, 784, 000 54, 902, 000
Bank of Russia	399, 436, 000	443, 239, 000	483, 316, 000	545, 077, 000	545, 098, 000
Creasury and banks of issue	000, 200, 000	320, 200, 000	200, 010, 000	020, 011, 000	020, 000, 000
in United States			666, 457, 000	1, 065, 257, 000	1, 238, 603, 000
		<u> </u>			
Banks and treasuri	<b>66.</b>	1882.	1883.	1884.	1885.
Dark of Burland and Statel on	d T-dak banka	Marks.	Morks.	Marks.	Marks.
Bank of England and Scotch an		575, 598, 000	593, 017, 000	567, 579, 000	564, 824, 000
of issue			210, 712, 000	283, 668, 000	261, 560, 000
Bank of the Netherlands			89, 962, 000	46, 150, 000	81, 487, 000
Bank of Belgium			57, 508, 000	52, 740, 000	55, 600, 000
Bank of France		771, 585, 000	760, 443, 000	801, 135, 000	925, 932, 000
wiss banks of issue		26, 558, 000	81, 521, 000	37, 506, 000	39, 830, 000
talian banks of issue and Itali	an treasury	61, 759, 000	488, 844, 000	493, 026, 000	896, 800, 000
Austro-Hungarian Bank	lan ad lanas a la	158, 845, 000	155, 364, 000	157, 644, 000	138, 145, 000
Bank of Sweden, and other ban		99 980 000	92 901 004	94 001 000	04 500 004
Sweden		23, 870, 000 25, 200, 000	23, 291, 000 25, 985, 000	24, 091, 000 26, 126, 000	24, 592, 000 21, 8 <b>3</b> 4, 000
Bank of Norman		1 20, 200, 000	20, 200, 000		
Bank of Norway		<u>64 941 000</u>	<u> </u>	<u>52 292 000</u>	
Bank of Norway National Bank of Denmark			54, 829, 000 545, 102, 000	52, <b>323</b> , 000 545, 108, 000	52, 047, 000 545, 107, 000
Bank of Norway			54, 829, 000 545, 102, 000	52, 828, 000 545, 108, 000	52, 047, 000 545, 107, 000

In this table we have included only positive statements, such as reached us in direct reports or letters from official sources. Where we had no statements for the close of a year, we have inserted the statement for the date nearest the close; as, for instance, in the case of the United States.

If we now make a cautious estimate of the coin holdings of banks not included in the preceding table, we can present the following summary statement of the probable available holdings of gold in all the reservoirs of civilized countries at the close of each year from 1877 to 1885:

Years.	Marks.	Kilograms fine.
1877	3, 500, 000, 000 8, 790, 000, 000 8, 900, 000, 000 4, 070, 000, 000	1, 085, 800 1, 021, 600 1, 254, 000 1, 358, 500 1, 397, 800 1, 458, 100 1, 648, 800 1, 677, 400 1, 806, 500

For the gold holdings of the Imperial Bank of Germany we have made estimates based on the data mentioned above. In regard to the banks of Spain, Portugal, Roumania, Greece, Canada, Cape Colony, etc., for which we have statements for occasional years, we have completed the figures as well as might be. It must therefore be admitted that the totals given present by no means correct figures. On the other hand, it must be borne in mind that the mistakes can have but a slight effect on the totals.

We give these totals with all possible qualification, yet we are convinced that they do not vary greatly from the facts. It is hardly necessary to say anything as to the importance of continuous statements

of this kind.

## 2. CIRCULATION AND SUPPLY OF GOLD AND SILVER COINS OVER AND ABOVE THE HOLDINGS OF BANKS, AND THE PROBABLE TOTAL MONETARY SUPPLY OF THE PRECIOUS METALS.

We have already seen that in modern times a very considerable part of the coin of civilized countries accumulates in the banks or public treasuries, which issue bank notes or paper money, or open a credit to depositors. The greater is the use of such substitutes for coin, the less will be the amount of coin actually in circulation. The denominations in which coins are struck have much influence on the extent of this substitution; for the greater the range between the different denomina-

tions, the less can actual coin be dispensed with.

To get some conception of the total monetary supply of a country we must resort, not only to the statements of the coin-holding banks, but also to estimates of the coin in the hands of the community. It need not be said that such estimates are difficult to make and uncertain in their results, especially where there has not been within a comparatively recent period a recoinage, and substitution of new for old coins. Notwithstanding the difficulty and uncertainty of the task, it has been attempted from time to time on various methods. It would carry us too far to discuss the methods by which the problem has been approached, and we will give without further ado those estimates of the different countries which upon the whole seem to us the most trustworthy. We must, however, acknowledge the services of the Directors of the Mint of the United States, and of Mr. Ottomar Haupt, who for a number of years have given great attention and much labor to this prob-Special credit belongs to the Histoire Monétaire de Notre Temps of the latter gentleman, published in April of the present year. The various investigations have yielded results which usually agree, and such agreement warrants a certain degree of confidence that the statements which are to follow come as near to the facts as is necessary for our purpose.

For brevity's sake we do not give separately the supply of coins in the hands of the community, but give the total coin holdings of the banks and of the community. If it is desired to ascertain the coin in circulation over and above that held by the banks, this can readily be done by subtracting from the totals the amounts already given for the

various banks and treasuries.

England.—A communication made by the master of the mint, Mr. Freemantle, in answer to an inquiry by the Government of the United States, gives the following estimates of the coin in use in Great Britain and Ireland at the close of 1884:

•	Amount.	Equivalent in German marks.
Gold in the banks and in circulation	£123, 309, 000 19, 877, 000 40, 924, 713	2, 466, 200, 000 397, 500, 000 818, 500, 000

Mr. Haupt estimates the money in use in England at the close of 1885 as follows:

		Per head of population.			
	Amount	In English currency.	In German currency.		
Gold in the banks. Gold in circulation. Silver coin Copper coin Uncovered notes  Total	<b>21, 600, 000</b>	12 0 10 6 7	Marks. 60.00' 12.00 .80 6.50		

This latter estimate, which agrees in the main with those published by us at earlier dates, is probably close to the truth. Variations of several percents per year, above or below the calculated amounts, are inevitable in a country whose international trade is as large as that of England, especially in consequence of the great movement of the precious metals to and from the United States and the periodic flow of silver to and from the colonies. But such changes are of no permanent importance. A factor of essential importance is the statutory provision that no note under £5 shall be issued in England. In Scotland and in Ireland, where £1 notes circulate, the use of sovereigns, as is well known, is very limited. Should the issue of £1 notes be permitted in England—and this has been proposed in Parliament, though as yet peremptorily rejected—a great increase would undoubtedly take place in the use of notes by the community, and the supply of gold in England would diminish appreciably; unless, indeed, it were cnacted at the same time that the whole or the greater part of such notes should be covered by gold in the hands of the Bank of England.

For the Australian colonies we may estimate the monetary supply of gold at about £22,000,000 and that of subsidiary silver at about £1,-300,000.

The supply of coin in the British possessions, outside of India, Australasia, and Mauritius, is probably above rather than below £12,000,000 of gold and £2,000,000 of silver.

The Netherlands.—The "Algemeen Verslag van het muntcolleg over 1885," gives the following statement of the coin probably in use:

	Floring.
Gold coins, 10-florin pieces (74,974,860 florins have been coined)	47, 247, 550
Legal-tender silver	
Subsidiary silver	
Copper coins	

# Mr. Haupt makes the following estimate for the Netherlands and their colonies:

Silver coins:	Florina.
In the bank	96,000,000
In circulation at home	
In circulation in colonies	
Gold coins and bars in the bank	
Gold coins:	,
In circulation at home	15,000,000
In circulation in the colonies	
Subsidiary coin:	•
At home	9,000,000
In the colonies	
Government paper money	10,000,000
Uncovered notes	
Total	494,000,000

Per head of population there were (at home) 15.75 florins gold, 37.75 florins legal-tender silver, and 15 florins uncovered notes and Govern-

ment paper.

Latin Union.—The states which form the so-called Latin Union—France, Belgium, Italy, Switzerland, and Greece—must be considered, during the continuance of the Union, as a monetary unit; since the treaties provide that not only the gold coins, but also the silver 5-franc pieces of each country, shall be accepted in all payments to every country. They therefore circulate indiscriminately in the community at large. The total coinage in the countries of the monetary union was up to July, 1885, as follows, the figures being taken from the official reports at the seventh session of the Mint Conference of these countries in 1885:

	France.	Italy.	Belgiam.	Switzerland.	Greece.
Gold coin:	Francs.	France.	France.	France.	Francs.
Before the treaty of 1865. After the treaty of 1865.	6, 501, 030, 710 2, 150, 523, 030	424, 465, 950 238, 220, 245	35, 168, 085 563, 474, 660	5, 000, 000	12, 000, 000
Total	8, 651, 553, 740	662, 686, 195	598, 642, 745	5, 000, 000	12, 000, 000
Silver 5-franc pieces: Before the treaty of 1865 After the treaty of 1865.	4, 435, 139, 860 625, 466, 380	184, 621, 950 359, 581, 360	145, 180, 490 850, 497, 720	2, 500, 000 7, 978, 250	<b>15, 462, 86</b> 5
Total	5, 060, 606, 240 237, 073, 624	544, 203, 310 170, 000, 000	495, 678, 210 33, 000, 000	10, 478, 250 18, 000, 000	15, 462, 865 10, 800, 000
coins	64, 030, 982	76, 140, 443	12, 269, 983	4, 480, 727	6, 816, 063

In these tables the statement of the Belgium coinage includes 14,646,025 francs of 25-franc and 10-franc pieces, which have been withdrawn by the Belgian Government; while the statement of Italian coinage includes 90,100,040 francs of 80-franc and 40-franc pieces, and 10,919,370 francs of 10-franc pieces, similarly withdrawn. On the other hand, the statement of coinage in France is exclusive of amounts withdrawn.

Setting aside subsidiary coins and legal-tender coins withdrawn by the Government, we still find that the coinage of the countries of the Latin Union up to date amounts to the gigantic sum of 9,814,217,245 francs in gold pieces, and 6,126,428,875 francs in silver 5-franc pieces. Now the question, a very important question, arises, how much of this enormous coinage is still on hand in the banks or in ordinary circulation; and how much of each kind of coin is in the different countries?

The question is one of the utmost importance for the future settlement of the Latin Union and the future mint policy of the countries composing it. In order to approach it, we must consider the countries singly.

France has for years possessed, and still possesses, the greatest supply of coin. Yet the estimates as to the extent of its supply vary greatly. Three times, in 1868, 1878, and 1885, the French Government has required about 20,000 public offices to make a statement on a given day of their total holding of gold and silver coin, and of its composition according to the country coined, and according to the date of the French coins.

The results were as follows:

Years.	Total.	Gold coins.	Silver legal tender.	Gold.	Silver.
1868 1878 1885	France. 29, 707, 260 22, 945, 770 17, 108, 315	Francs. 29, 028, 140 16, 878, 740 11, 860, 430	France. 679, 120 6, 067, 030 5, 247, 885	Per cent. 97. 72 73. 55 69. 83	Per cent. 2. 28 26. 45 30. 67

These amounts were divided between French and foreign coins as follows:

Years.	s. French gold coins.		Foreign gold coins.		French legal-tender silver.		Foreign legal-tender silver.	
1868 1878 1885	France. 27, 684, 300 14, 705, 450 10, 631, 130	Per cent. 95. 4 87. 1 89. 6	France. 1, 343, 840 2, 178, 290 1, 229, 800	Per cent. 4.6 12.9 10.4	Francs. 688, 406 4, 124, 945 8, 788, 796	Per cent. 94, 0 68, 0 71, 2	France. 40, 715 1, 942, 085 1, 509, 090	Per cent. 6. 0 32. 0 28. 8

This indicates that the number of silver 5-franc pieces had increased considerably in 1878 as compared with 1868, but had fallen off since 1878. The same was the case in regard to foreign coins, both gold and silver. It will be noticed that the total quantity counted was smallest at the latest date, which may be accounted for by the fact that many offices, in order to avoid the trouble of sorting and counting large quantities of coin, exchanged coins on hand for bank-notes just before the day for which the count was ordered. Other mistakes were doubtless made in the conduct of these inquiries, but hardly exercised a great influence on the general results. M. de Foville believed that these inquiries would enable conclusions to be reached, on a method not uncommon in such matters, as to the total circulation of coin in France. In an essay read before the Statistical Society in Paris on October 21, 1885, he put the total supply of coin in France as follows: 4,000,000,000 francs in 20-franc pieces, 600,000,000 in 10-franc pieces, and 2,800,000,000 in silver 5-franc pieces, a total of 7,400,000,009 francs. Adding to these other gold coins—that is, 100, 50, 40, and 5-franc pieces, of which a total of 518,000,000 francs were originally coined—we get a total monetary supply of nearly eight milliards, a supply such as no other people pos-808808.

Mr. Haupt makes an estimate varying somewhat from this. He pays especial attention to the recorded import and export of the precious metals in France since 1815, and reaches the following results for the close of 1885:

	Amount.	Per head of popu- lation.
Gold: In the bank	Francs, 1, 157, 000, 000 3, 300, 000, 000	France.
Silver:  Legal tender in the bank  Legal tender in circulation  Subsidiary coin  Copper subsidiary coin	1, 086, (00, 000 2, 400, 000, 000 250, 000, 000 60, 000, 000	
Total	8, 253, 000, 000 675, 000, 000	

Our own opinion is that this second estimate puts the supply of gold and silver coins too high, and that, on the other hand, M. de Foville's estimate puts the supply of gold coins and of subsidiary coins too high. We should probably get closer to the truth by putting the French supply of coin, at the close of 1885, at about 4,200,000,000 francs in gold and gold coins, about 3,000,000,000 in silver 5 franc pieces, and 300,000,000 in subsidiary coin.

In regard to Belgium, it is well known that estimates differing widely were made at the conferences on the continuance of the Latin Union. They differed greatly as to the probable supply of the silver 5-franc pieces in Belgium, and as to the amount of silver 5 franc pieces of Belgian coinage within and without the country. On the basis of what was said at this conference we conclude that the supply of coin in Belgium at the close of 1885 is probably not far from the following:

	Amount.	Per head of population (about).
Gold: In the bank	Francs. 69, 500, 000 310, 500, 000	France.
Silver: In the bank In circulation Subsidiary coin, silver and copper. Uncovered notes	32, 700, 000 217, 300, 000 48, 000, 000 265, 000, 000	} _ 43 8 46

In regard to note circulation, it should be remembered that bills of exchange on foreign countries to the amount of from 70,000,000 to 80,000,000 francs, convertible into gold at any moment, are constantly held by the National Bank for the redemption of notes.

The resumption of specie payments in Italy has led in recent years to considerable changes in its coin circulation; and, indeed, the period of transition is not yet over. This explains the great differences between the various estimates made from time to time. Before the coin loan of 644,000,000 lire in 1881, it was estimated that the coin supply of Italy amounted to about 209,000,000 lire gold, 171,000,000 lire legal-tender silver, and 64,000,000 lire subsidiary silver coin.

In a commission report of June 3, 1835, Representative Simonelli estimated the monetary supply of the precious metals in Italy at that time as follows:

	Gold.	Silver legal tender.	Silver sub- sidiary coin.
In banks	Lire. 4, 400, 000 0, 800, 000 0, 000, 000 5, 200, 000	Lire. 5, 900, 000 33, 100, 000 50, 000, 000	Lire, 26, 100, 000 14, 700, 000 129, 200, 000 170, 000, 000

For the close of 1885 the best informed Italian statisticians made the following estimates:

Gold:	Lire.
In treasury	919 000 000
In banks	
In circulation	75, 000, 000
Silver:	•
Legal tender in treasury	80,000,000
Legal tender in banks	44,000,000
Legal tender in circulation	
Subsidiary coin	171,000,000
Copper subsidiary coin	75,000,000
•	
Total coin	994, 000, 000
Government paper money	238, 000, 000
Uncovered notes	612, 000, 000

Included in this table are 18,000,000 lire of old and foreign gold coins, and 74,000,000 lire of old silver coins which had been withdrawn.

Per head of population there were at the close of 1885 18.50 lire gold, 3.30 lire legal-tender silver, and 5.70 lire of subsidiary silver coin.

Mr. Ferraris put the monetary supply of the precious metals in Italy at the end of June, 1885, at the following figures:

	Amount	Per head (about).
Gold, at most	Francs. 600, 000, 000	Marks.
Five-franc pieces Silver subsidiary coins Copper coins Bourbon piasters, etc	170, 000, 000 170, 000, 000 78, 000, 000 27, 000, 000	5

In regard to Switzerland, also, estimates vary greatly, especially in the matter of silver 5-franc pieces. Former estimates were apt to put the supply of this sort of coin in Switzerland at no more than 40,000,000 francs, while later estimates put it as high as 150,000,000 francs. These estimates must have been in the mind of the Swiss delegate to the Paris conference of 1885, who said, at the eleventh session of the conference, that inquiries made in August, 1885, indicated that nearly half (49.5 per cent.) of the 5-franc pieces circulating in Switzerland consisted of Italian pieces, and that this, on a total circulation of at least 100,000,000 francs, would indicate that the Italian pieces amounted to 50,000,000 francs.

If we include the coin holdings of the Swiss banks of issue, which, as stated above, amounted at the close of 1885 to 49,163,000 francs of gold and 20,438,000 francs of silver, we believe that the probable monetary

supply of Switzerland may be cautiously stated for the close of 1885 as follows:

	Amount	Per head (about).
GoldLegal-tender silver.	France. 90, 000, 000 70, 000, 000	France. 31.0 24.1
Legal-tender silver Subsidiary coin Notes not covered by coin	20, 000, 000 54, 510, 000	6.9 18.8

Austro-Hungary.—So far as Austro-Hungary is concerned, we need add no sum of importance to the coin holdings of the Austro-Hungarian bank, which were, at the close of 1885, 69,080,000 florins of gold and 129,720,000 florins of silver. The circulation of irredeemable paper money since 1848 and the discontinuance of the coinage of silver, which had been maintained for a number of years, have driven abroad all but the subsidiary coins. We probably get close to the truth by putting the total monetary supply at the close of 1885 at about 80,000,000 florins of gold and about 150,000,000 florins of silver, there being at the same time 48,000,000 florins of subsidiary coin, 165,000,000 florins of bank-notes, and 338,000,000 florins of Government paper money.

Germany.—An estimate for the year 1870, whose correctness has not been doubted, and which of course does not include Alsace-Lorraine,

puts the monetary supply as follows:

	Aviount.	Per head (about).
Domestic gold coinsabout	Marks. 91, 000, 000	
Legal-tendersilver. Subsidiary coins. Foreign coins. Hamburg bank money.	40, 000, 000	
Total Paper money of various states Uncovered notes	1, 752, 000, 000 184, 000, 000 859, 000, 000	45 } 14
All told	2, 295, 000, 000	59

By the close of 1880 all older German coins, barring a remnant of thaler pieces, had been withdrawn from circulation and either recoined or melted into bullion. There were withdrawn of old silver coins 1,080,-486,138 marks, of which 530,334,687 marks were in thaler pieces. From the silver obtained by melting down these coins there were taken, up to the close of 1885, 222,245,742 kilograms fine for new imperial silver coins, and 3,552,448 kilograms were sold. The remainder (94,468 kilograms at the close of 1884) is still in the Government's possession.

The total coinage of the German Empire, exclusive of coins withdrawn in the meanwhile, has been, up to the close of 1885, 1,928,890,830 marks in gold coins, 444,491,484 marks in silver coins, and 44,842,462 marks

in nickel and copper coins.

The new silver coins and the other subsidiary coins struck since 1873, barring an uncoined portion of 20-pfennig pieces and an insignificant loss by accident, are still in circulation; but, on the other hand, considerable sums of the gold coins have disappeared from circulation. There have disappeared, in the first place, 120,000,000 marks in double crowns, which are absorbed in the war treasury at Spaudan. This sum

is certain; but the quantity melted down for use in the arts or exported to foreign countries is quite uncertain. A part of the quantity exported, especially that which is held by foreign banks in its original form, is not permanently withdrawn from circulation in Germany, since a favorable rate of exchange will doubtless bring it back to Germany sooner or later. As the rate of exchange in recent years has been generally in favor of Germany, it is probable that the only coin which has been remelted at foreign mints or has been used in the arts constitutes a loss to Germany's possible supply of gold. Needless to say, we must add to this supply the gold held by the Imperial Bank in bars and in foreign coins.

Mr. Haupt ascertained that at the close of 1885 there had been undoubtedly recoined at foreign mints German gold coins to the amount of 161,400,000 marks. He estimates that about 110,000,000 marks of these coins had been melted for use in the arts. This is a mere guess; but, as we know no reason for believing the amount to be larger or smaller,

we accept it.

The sum of gold bars and of foreign gold coin held by the Imperial Bank at the close of 1885 was, reckoning the pound fine at 1,392 marks, 193,706,605 marks.

We have already published the statement which follows, of the supply of thaler pieces. We still consider that statement to be proximately correct; and we reproduce it, since it is connected with a point of great

practical importance for Germany.

At the beginning of the reform of the German coinage it was calculated that there could have been in circulation 367,746,038 thaler pieces, that is, 1,103,238,114 marks. When the 1 and 2 florin pieces were entirely withdrawn, it was found that about 21 per cent. of the original coinage had disappeared. If we assume the same proportion for the thaler pieces, there would have been present in the year 1870 about 854,000,000 marks of those coins. Up to May, 1879, when the withdrawal of thalers ceased, there had been drawn in 530,334,687 marks; so that there are probably still in circulation 323,665,000 marks. the Austrian thalers still in existence have made their way to Germany. Of these, 31,060,321 pieces had been coined, which would leave in circulation, making the same deduction that was made before, 73,600,000 marks, which should be added as part of the existing supply. total probable supply in Germany of thalers which are still full legal tender may therefore be put at nearly 400,000,000 marks. The supply is generally put at 450,000,000 marks, in order to prevent any charge of intentionally understating it.

Government notes were originally issued to the amount of 174,120,130 marks. The quantity has decreased in accordance with the provisions

of law, and amounted in March, 1886, to 137,500,000 marks.

We may therefore make the following statement of the extent and composition of the money in circulation and of the precious metals in Germany at the close of 1885:

	Marks.
Imperial gold coins (exclusive of the Spandau hoard)	1,550,000,000
Gold in bars and foreign coins at the Imperial Bank	194, 000, 000
Thalers, German and Austrian, at most	450, 000, 000
Imperial silver coins	442, 000, 000
Nickel and copper coins	
Total coin and bullion.  Notes of the Empire ( <i>Esimekassenecheine</i> ).  Uncovered notes	2, 676, 000, 000
Notes of the Empire (Psiniskassenscheine)	138, 000, 000
Uncovered notes	361, 000, 000
▲11 +old	3 175 000 000

The deposits in the banks, which are to be considered equivalent to a note circulation, would give an addition of 300,000,000 marks to this total.

Per head of population Germany possessed, for a total population of 46,840,000, 37.2 marks of gold, 10 marks of legal tender silver and subsidiary coin, 10.7 marks of credit money—that is, a circulating medium of all kinds per head of population of about 68 marks (the deposits not being reckoned), as against 58.5 marks in the year 1870.

Scandinavian countries.—Since the treaty of 1873 Sweden, Norway, and Denmark have a close monetary union. The coins of each country being legal tender in the other countries, they are to be considered as one country, so far as the supply and circulation of money are concerned.

As appears from the tables printed above, the three countries coined from 1873 to the close of 1885, 94,462,925 crowns of gold and 39,438,572 crowns of silver. This gives for a population of 8,400,000, 11.2 crowns of gold per head and 4.7 crowns of silver per head. The figure for silver may be considered accurate, since the silver is a subsidiary coin whose nominal value exceeds its intrinsic value by more than 30 per cent., and which is therefore neither melted down nor exported. The case is different with the gold coins, in regard to which we know from the reports of foreign mints and from other sources that considerable sums have been exported and melted. On the other hand, the Scandinavian public banks hold large sums of gold in bars and in foreign coin as a reserve for their note circulation. Moreover, the Bank of Norway, over and above its domestic holdings of gold, has a not inconsiderable supply of gold on deposit at foreign banks and immediately available. The money in circulation in the three countries at the close of 1885 may be estimated as follows:

	Denmark.	Sweden.	Norway.
Gold: In the banks In circulation. Silver coins Copper coins Uncovered notes	3, 000, 000 18, 500, 000 700, 000	Crowns. 21, 630, 000 11, 000, 000 15, 500, 000 900, 000 64, 140, 000	Crowns. 19, 410, 000 1, 000, 000 5, 000, 000 300, 000 17, 740, 000
Total	92, 290, 000	113, 170, 000	43, 450, 000

If we consider the gold which is kept abroad a part of the reserve for the Norwegian bank notes the amount of uncovered notes becomes no more than 8,472,000 crowns.

These estimates differ from those last presented by Mr. Haupt. We put the amount of gold coins in active circulation in Sweden and Norway at a much lower figure than that gentleman. Our conclusion rests on numerous inquiries made in these countries. The experience of the Scandinavians proves clearly that where a firmly organized banking system has possessed complete confidence for a considerable period of time, and where the population has become used to small bank notes, these latter form the chief circulating medium, while gold coins, notwithstanding the gold standard, make their appearance to a very slight extent in general trade, and accumulate in the banks.

Russia.—Here the existence of irredeemable paper money leads us to make our estimate of the monetary supply in much the same way as in Austro-Hungary. The stated quantity held by the Bank of Russia and the quantity of subsidiary coin are to be supplemented by some small amount

Finland marks

which must be guessed. Although the irredeemable paper money has existed for many years and has driven all coin of full weight out of circulation, alarger or smaller part of the coin fermerly in circulation is still held by the people. This conclusion is based on the common experience that when the resumption of specie payment takes place in a civilized country, a great number of coins make their appearance without anyone's knowing exactly whence they come. Let us add to the supply of gold held by the Government bank as given above, 10,000,000 rubles of gold coin and about the same amount of silver legal tender coins; let us add also 80,000,000 or 90,000,000 rubles in silver and copper subsidiary coin; and we get (apart from the so-called latent reserve) a statement which is not too low of the present supply of coin in Russia. The paper money issued up to the close of 1885 amounted to about 907,000,000 rubles. On the other hand, 244,000,000 rubles in gold were held by the banks.

The balance sheet of the Bank of Russia for July 1, 1886, stated 716,433,349 rubles of credit notes to be in circulation, while the coin reserve was 171,472,495 rubles, of which 170,346,091 rubles were gold. In addition the bank held coin for safe keeping to the amount of 13,598,729 rubles. The premium on the paper is subject to great fluctuations, but experience has shown that it does not depend upon changes in the total amount of paper issued.

We have received the following estimate of the coin in circulation in Finland at the close of 1885:

Gold coins:	•	iniang marks.
In the bank	about	17, 250, 000
In circulation		
Silver coins: In the bank	do	5 500 000
In the bank		
Copper coins		

United States.—We have already stated, in the first division of the present part, the supply of coin in the Treasury and in the banks. It remains only to give the sums which are in the hands of the public at large, and, by adding them to the quantity in the Treasury and in the banks, to ascertain the total amount of mouey in use in that important country.

It was estimated that there were in the hands of the public:

	January 1, , 1879.	November 1, 1882.	November 1, 1883.	November 1, 1884.	November 1, 1885.
Gold Silver Notes	\$119, 629, 771 67, 693, 895 459, 097, 051	\$286, 900, 965 77, 332, 723 548, 828, 288	\$308, <b>791</b> , 137 84, 768, 767 523, 124, 121	\$307, 826, 918 90, 722, 903 492, 735, 832	\$251, 476, 288 107, 914, 611 470, 401, 878
Total	646, 420, 717	913, 061, 976	916, 684, 025	891, 285, 653	829, 792, 771

Add the amounts in the Treasury and banks, and we get as the total supply and circulation of money:

	January 1, 1879.	November 1, 1882.	November 1, 1883.	November 1, 1884.	November 1, ` 1885.
Gold	\$278, 310, 126 106, 573, 803 670, 472, 690	\$547, 356, 262 208, 744, 424 709, 408, 763	\$581, 970, 254 242, 701, 932 698, <b>694</b> , 803	\$585, 611, 872 275, 735, 439 680, 240, 829	\$586, 727, 787 307, 658, 827 662, 528, 184
Total	6, 055, 356, 619	1, 465, 509, 449	1, 523, 366, 989	1, 541, 588, 140	1, 556, 914, 798

As this table shows, the supply of precious metals in the United States has increased in the space of not quite seven years, from the 1st of January, 1879, to the 1st of November, 1885, by \$308,418,000 of gold and by \$201,085,000 of silver.

Attempts have occasionally been made to get statements of the money in circulation in countries other than those mentioned above. present none of them, considering them too uncertain. We content ourselves with presenting a collective statement. Some such statement has to be made, if we wish to get an expression in figures on the general condition of the medium of exchange and the probable future of the gold and silver standards. It is perfectly true that no statistics are better than false statistics; but we have here to deal, not with false statistics, but with estimates and compilations by which, though with wide limits of error, we try to get near the truth, and which are no more open to the charge of overstatement than to that of understatement. What we said before as to the estimates of the production of the precious metals, holds good for these estimates also. If good reasons are presented for thinking the balance of probability to be different, those who prepared the tables are more than willing to undertake a modification. Nothing lies further from their intention than to uphold preconceived or prejudiced estimates.

We have said that we will give a collective estimate for all the countries not especially mentioned above. This proceeding has the advantage that too high an estimate for one of these countries is likely to be offset by too low an estimate in another; and that we dispense with much empty guess-work. In any case these supplementary amounts are insignificant in comparison with the totals arrived at.

We therefore conclude the present part with a statement giving the probable monetary supply of the precious metals in civilized countries at the close of the year 1885. The legal-tender and subsidiary silver are treated as one. But the value of the silver coins we reckon on a plan different from that followed elsewhere in this work. We calculate, not their intrinsic value, but that assigned to them by law, that is, the value which is given in the bank statements, and which obtains in ordinary circulation.

Estimate of the total monetary supply of the precious metals at the close of 1885.

Countries.	Gold.		Silve	r.	Gold and silver.		
	Marks.	Per cent.	Marks.	Per cent.	Marks.	Per cent.	
Great Britain	2, 220, 000, 000	16. 61	432, 000, 000	5. 51	2, 652, 000, 000	12.50	
British colonies (without	• • •		1				
India)	680, 000, 000	5. 09	66, 000, 000	0. 84	746, 000, 000	8, 52	
Netherlands	80, 000, 000	0. 60	269, 000, 000	3. 43	349, 000, 000	1.63	
France, Italy, Belgium,	, ,	İ	1	'			
and Switzerland	4, 195, 000, 000	31. 89	3, 200, 000, 000	40. 80	7, 395, 000, 000	34.87	
Austro-Hungary	160, 000, 000	1. 20	870, 000, 000	4.72	530, 000, 000	2. 50	
Germany	1, 744, 000, 000	13.05	892, 000, 000	11.37	2, 636, 000, 0 <b>00</b>	12. 43	
Scandinavian countries.	115, 000, 000	<b>0.86</b>	42, 000, 000	0. 54	157, 000, 000	<b>U. 74</b>	
Russia	770, 000, 000	5.76	280, 000, 000	3, 57	1, 050, 000, 000	4, 95	
United States	2, 464, 000, 000	18. 44	1, 292, 000, 000	16. 47	3, 756, 000, 000	17.71	
Other countries in Europe and America	936, 000, 000	7. 00	1, 000, 000, 000	12.75	1, 936, 000, 000	9. 13	
Total	18, 864, 000, 000	100.00	7, 843, 000, 000	100.00	21, 207, 000, 000	100.00	

### PART VI.

THE RATES OF DISCOUNT AND OF EXCHANGE.

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### THE RATES OF DISCOUNT AND OF EXCHANGE.

As our materials are meant mainly for the use of men of business, a detailed discussion of the nature of the rate of discount and the rate of exchange, and of the meaning of their fluctuations, may be dispensed with. The tables themselves give sufficient information.

1. DISCOUNT.

The rate of discount at important points from 1851 to 1885.

	Bank	of En	zland.	Bành	of Fr	ance.	(or	of Ger Pruse Bank)	rmany sian ·	Open :	rate at burg.	Ham-	Vien	na (bill	ls at)
Year.	Lowest.	Highest.	Average.*	Lowest.	Highest.	Атегаде.	Lowest	Highest.	Атегаде.	Lowest.	Highest.	Average.	Lowest.	Highest.	Average.
1851 1852 1853 1853 1854 1855 1856 1857 1858 1860 1861 1862 1862 1863 1864 1867 1868 1871 1872 1872 1873 1874 1875 1876 1877 1878 1879 1881 1882 1883 1884 1884 1884 1884	3225345232323633222222222222222222222222	32556695457379703345468644454355455	3. 00 2. 08 3. 50 4. 75 5. 75 6. 25 4. 75 5. 6. 25 4. 50 4. 50 4. 75 5. 25 5. 25 6. 25	488445588848848822255544822288888	44456695447578558226667444888355888	4. 00 3. 17 8. 23 4. 80 4. 44 5. 51 6. 15 8. 63 5. 77 4. 64 6. 50 8. 67 2. 50 8. 67 2. 50 8. 40 8. 40 8. 60 8.	444445444444444444	4455467654444779445855766655456545	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	121114311112218112222822221122222	56642 10258445678434845755554455555445	2. 75 3. 50 5. 75 5. 50 1. 75 5. 50 1. 75 2. 50 1. 75 3. 19 3. 4 3. 4 3. 50 3. 50 4. 50 3. 4 3. 50 4. 50 3. 4 3. 50 50 3. 50 3. 50 3. 50 3. 50 3. 50 3. 50 3. 50 3. 50 3. 50 3. 50 3	444445555555554444555554444444444444444	4444555555555445666555544445544	4.4.4.4.5.5.5.5.5.5.4.4.4.4.4.4.4.4.4.4

<sup>\*</sup>In this and the corresponding columns the average is for the year.

#### Average rate for periods of several years since 1851.

Periods.	Bank of England.	Bank of France.	Bank of Germany (or Prussian Bank).	Open rate at Ham- burg.	Vienna.
1851-'60	4. 12	4. 16	4. 39	3. 40	4. 44
	4. 90	4. 83	4. 47	3. 30	5. 11
	3. 62	3. 07	4. 67	3. 27	4. 54
	3. 75	4. 86	4. 50	3. 77	5. 16
	2. 87	2. 65	4. 17	3. 24	4. 34
	8. 43	3. 34	4. 23	3. 37	4. 06

The highest and lowest rates of discount in the thirty-five years, from 1851 to 1885, were as follows:

	Highest.	Lowest.
For the Bank of England.  For the Bank of France  For the Bank of Prussia (or of Germany)  Private rates at Hamburg  Private rates at Vienna.	9 10	Per cent. 2 2 3 1 4

'In Paris, London, and Berlin the rate of discount at other banks and with private firms was generally somewhat lower.

As regards the number of changes which the rate of discount underwent in each year from 1851 to 1885 in London, Paris, Berlin, and Vienna, the following table gives information:

Year.	Bank of England.	Bank of France.	Bank of Prussia.	Vienna.	Year.	Bank of England.	Bank of France.	Bank of Germany (or of Prussia).	Vienna.
1831 1852 1853	None.	None.	None. None.	None. None. None.	18 <b>69</b> 18 <b>70</b> 18 <b>71</b>	7 19 10	None.	1 5	1
1854 1855 1856	2 7	2 2 2	1	None. None.	1872 1873 1874	14 24 13	1 4	1 6	1
1857 1858 1859	9 6	2 8 4 2	7 5 9	None. None. None.	1875 1876 1877	12 5	None.	5 6	1 None.
1860 1861 1862	· 11	7	None. None. None.	None.	1878 1879 1880	10 5 2	1 2 2	3 6	None.
1863 1864 1865	5 12 15 16	8 11	2 5	None. None. None.	1881 1862 1883	6	3	3 5	None. None.
1866 1867 1868	16 14 3 2	7 1 None.	None. None.	None. None. None.	1884 1885	6 7 7	None. None.	None.	None. None.

Finally, we present a comparative statement of the monthly rate of discount at several important points for the two years 1869 and 1885. The figures are taken from the well-known annual Commercial History and Review of the London Economist:

Per ct.	Private.	Bank.	te.						
		Ä	Private.	Bank.	Private.	Bank.	Private.	Bank.	Private.
3 8 4 4 4 8 8 8 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Per ct. 25 37 37 38 44 34 24 25 37 27 37	Per et. 21 22 22 22 22 22 22 22 22 22 22 22 22	Per ct.  11 11 12 22 22 22 22 22 22 23	Per ct. 4 4 4 4 4 5 5 5	Per ct. 4 4 4 4 4 4 5 7 6 5 5	Per ct. 4 4 4 4 4 4 5 5	Per ct. 21 21 21 21 21 4 3 4 4 4 4 4 4	Per ct. 21 21 21 21 21 3 3 4 4	Per ct.  13 13 13 13 13 13 13 13 13 13 13 13 13
8. 12	3.00	2.50	2.25	4.37	4.50	4. 25	3, 25	3.00	2. 5
5 4 4 8 3 2 2 2 2 2 2 2 2 2 3	4 3 8 6 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	222222222222222222222222222222222222222	4 4 4 4 4 4 4 4 4 4	4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4 4 4 4 4 4 4 4	33334222222222	4 4 5 4 4 4 4 4	83284 284 28223 22323 22323
2. 84	2. 04	3, 00	2. 46	4.00	3. 48	4. 13	2.91	4. 13	2. 9
		Amst	erdam.	Brus	sels.	Han	burg.	St. Pet	eraburg
tha.	•	Bank.	Private.	Bank.	Private.	Bank.	Private.	Bank.	Private.
		2 1 2 1 2 1 3 1 3 1 3 1 4 5	Per ct. 24 24 24 24 24 34 34 35 5	Per ct. 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	Per ct. 21 21 21 21 21 21 21 21 21 21 21 21 21	Per ct.	Per ct.  13 13 13 13 13 14 44 4 24 4 4 4 81	Per ct. 7 7 7 7 7 6 6 5 5 6 6	Per ct 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7
• • • • • • • • •	•••••	8. 50	8. 50	2.50	2. 50		2.75	6. 37	6.
		8 3 3 2 2 2 2 2 1	21 21 22 22 22 22 22 22 22 22 22 22 22 2	4 4 3 3 3 3 3 3 3	85 25 25 25 25 25 25 25 25 25 25 25 25 25	4 4 4 5 4 4 4 4	3 2 3 2 3 2 2 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 3 2 2 3 2 3 2 3 4 3 2 3 3 3 3	6 6 6 6 6 6 6 6	6 6 6 6 6 6
	3 21 3 3 3 3 8. 12 5 4 4 3 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3	3	8. 12 3. 00 2. 50  5 4 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	8. 12 3. 00 2. 50 2. 25  5 4 3 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 4 3	8. 12 3. 00 2. 50 2. 25 4. 37    5	8.12 3.00 2.50 2.25 4.37 4.50  5 4 3 3 2 4 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	8.12 3.00 2.50 2.25 4.37 4.50 4.25  5 4 3 3 21 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8.12 3.00 2.50 2.25 4.37 4.50 4.25 3.25  5 44 33 3 22 4 8 4 8 5 3 34 4 8 6 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8	38

2. EXCHANGE.

#### Rate of exchange on London, 1851-'85

Years.	At Berli	in, three m	onths.*		At Paris, three months. France per pound.†			At St. Petersburg, three months. Pence per ruble.			
	Highest.	Lowest.	Average.	Highest.	Lowest.	Average.	Highest.	Lowest.	Average		
1851		6. 194	6. 201	25. 25	24. 774	24. 901	38 <del>11</del> 397	871	87. 90		
1852		6, 20	6. 23	25. 824	24. 90	25. 15	89.76	8711	38. 29		
1853		6. 16	6. 19	24. 90	24.70	24.79	898	88	88, 68		
1854		6. 13	6. 15	24. 82	24.62	24.714	387± 86±	831	<b>36.</b> 37		
1855 1856	6. 20 6. 22 <b>3</b>	6. 14 <b>4</b> 6. 164	6. 174	<b>24. 9</b> 2 <b>25. 02</b>	24. 77	24.84	30g	35 18 37 18	36. 07 38. 23		
1857	6. 19	6. 17	6. 20 <u>5</u> 6. 18 <b>5</b>	24.87	24. 80 24. 70	24. 91 24. 80	88 ¥	34	37. 24		
1858	6. 21	6, 18	6. 191	25. 00	24. 821	24.90	39 7 38 7 36 1 3	35	85. 98		
1859	6. 21	6. 14	6. 17	24. 95	24. 924	24. 93	8614	83	35. 24		
1860	6. 18	6. 171	6. 17	25. 071	24. 82	24. 88	36 <u>}</u>	34 🕌	85. 68		
1861	6, 211	6. 18 <del>1</del>	6. 20	25. 17	24. 85	25.004	85	337	31. 27		
1862	6. 22	6. 20	6. 211	25. 12	24, 921	25. 03	8511	337	84. 6		
18 <b>63</b> 18 <b>64</b> .	6. 21	6.18	6. 20	25. 20	24. 85	24. 97	37	35	36. 6		
1865	6. 21 d 6. 24 d	6. 18 <u>1</u> 6. 20 <u>7</u>	6. 20 <u>1</u> 6. 22 <u>1</u>	24. 92 24. 97	24. 67 24. 77	24. 797 24. 894	343 81 <del>12</del>	80 <del> </del> 81	32, 5: 81, 4:		
1866	6. 227	6. 17	6. 21	25. 16	24.70	24. 88 <b>2</b>	82	9514	29. 7		
1867	6. 241	6. 207	6. 231	25. 21	25. 14	25. 10	831	25   \$ 81	<b>82.</b> 5		
1868	6. 24	6. 22	6. 23	25. 21	25. 14	25. 16	33 A	82	32. 8		
1869	6. 24	<b>6. 23</b>	6. 23	<b>25. 28</b>	25. 124	25. 16i	3218	29	80. 50		
1870	6. 24	6. 19	6. 22 <del>1</del>	25. 20	<b>25. 12</b>	25. 18 <del>]</del>	31	28	29. 73		
1871		6. 191	6. 21	<b>26</b> . 10	25. 25	25, 654	82 <del>[</del> ]	31	82.00		
1872	6. 217	6. 20	6. 21	25. 671	25. 22	25. 461	83	82 <sub>7</sub>	82.73		
1873 1874	6. 21	6. 19	6. 20 6. 22	25 51 25, 23	25, 27 <b>4</b> 25, 18	25. 64 <del>3</del>	82 <del>11</del> 83	82 82	82. 45 83. 25		
1875	6. 23 7 20. 46	6. 21 <b>2</b> 20. 15	20. 301	25. 26	25. 08)	25, 17 <b>6</b> 25, 15 <b>1</b>	33 <u>4</u>	3131	83. 73		
876	20.42	20. 21	20. 35	25. 24	25. 08	25. 16	811	9229	80. 90		
877	20. 454	20. 25	20. 35	25. 19	25. 08 <del>1</del>	25. 117	297	23.4	25. 96		
878	20.31	20. 24	20. 27	25, 29	25. 08	25. 16	264	22.4	24.40		
1879	20.40	20. 221	?0. 32 <del>1</del>	25. 30	<b>25</b> . 12	25. 21	25	22.	24.30		
1880	20. 39 <del>1</del>	20. 26	20. 31 🖁	25. 85	25. 12 i	25. 25	25jg	24 🔩	25. 03		
881	20. 88	20. 16	20. 294	25. 311	25, 14 <u>1</u>	25. 24	26	24. 23. 23. 23. 23.	25. 19		
1882	20. 82	20. 15	20. 25	25, 27	25. 12	25. 20 <del>3</del>	2478	2311	24. 16		
1883	20. 324	20. 25	20. 29	25. 32	25. 17	25. 24	24 /% 24 /% 25 /%	Z34	23.66		
1884 18 <b>85</b> .	20.42	20. 22	20. 31 <u>7</u>	25. 321	25. 144 25. 221	25. 211	25 de 25 de	2017	24. 31		
1000	20. 34 🛔	20. 22	<b>2</b> 0. 29}	25. 881	25. 23 l	25. 28 <del>§</del>	was	2038	24. 10		

<sup>\*</sup>Berlin.—Until 1874 (inclusive) the figures mean so many thalers and silver groschen per pound sterling; after 1875 they mean marks per pound.

†Paris.—Since the year 1867 quotations are for sight-bills. From September, 1870, to May, 1871, no rates were published, in consequence of the Franco-German war.

Rate of exchange on London, 1851-'85-Continued.

Years.			onths. Flo- pounds.*	At New York, sixty days' sight.			
	Highest.	Lowest.	Average.	Highest.	Lowest.	Average	
851		11. 32	12. 14				
852	12. 29	10.45	11.63			,	
853		10, 38	10.63				
8 <b>54</b>		11. 12	12.31				
855		10.51	11.62		• • • • • • • • • • • • • • • • • • • •		
8 <b>56</b>		10.02	10. 10				
857		10.07	10.13				
858		9.51	10.05		· • • • • • • • • • • • • • • • • • • •		
859	4 4 7 7 7 7	104. 10 126. 00	122. 29		1041	100 50	
800	149.00	120.00	132. 50	110	TOAR	108. 59	
B61	153, 40	137. 35	141.78	1102	106	107, 58	
862	138.80	114.80	128, 28	147 .	1112	125, 56	
B63.		110.60	113, 50	187	140	160. 29	
864.		113, 60	115.99	273	172	223, 25	
B65		103, 80	109.00	225	1511	167. 85	
B <b>86</b>		101.70	120.33	166	136	151.82	
867		120.30	125. 98	1101	108	109. 37	
B <b>68</b>	119.70	113, 60	116. 50	i 110₹	1685	109. 67	
B <b>69</b>	. 126, 90	121. 10	123. 75	110	107	109. 01	
870	124. 50	119. 90	124. 04	1092	1081	109. 22	
871	125. 10	115 90	121. 42	1105	1081	109.44	
872	. 113.80	106. 90	110. 53	110	108	109.10	
873	. 113.85	109.00	111.05	1091	106	108. 13	
874	. 112.75	109. 25	111.01	4.881	4.81	4. 85	
875	113. 80	111.00	111.82	4. 88	4.79	4.84	
876	127.45	114.30	121.35	4. 881	4. 82	4. 85	
877	. 128. 90	117. 20	122. 25	4.88	4.81	4. 84	
878	. 122.80	114.70	117.89	4.87	4.80	4. 83	
879	. 117. 70	115.85 117.20	116.63 117.84	4.873	4.80	4. 83	
B <b>80</b>	119. 15	117.20	111.04	4 00	9. 108	4.82	
<b>881</b>	. 118.80	116. 90	117. 904	4.831	4.76	4. 80	
882		118. 50	119.63	4.86	4. 793	4.83	
883	. 121. 10	119.65	120.07	4.843	4.81	4. 8	
884	123, 30	121.30	121. 98	4.87	4.80	4. 8	
885	. 126.75	123. 70	125. 01	4. 861	4.83	4.8	

\*Vienna.—Since the year 1859 the rate of exchange is quoted at so much per 10 pounds sterling. After 1881 the quotations are for sight-bills.

There is no subject in statistics which admits of so exact treatment as the rate of exchange. The balance of payments in a country is indicated beyond doubt by the rates of exchange. If a country has larger payments to make abroad than it has to receive (taking into account all payments due at the time, so that it is necessary to consider not the excess of imports alone, the payments of interests alone, or any single obligation,) then the equilibrium must be established by a remittance of coin. But a remittance of coin will take place only if bills on foreign countries are dear. In consequence of the arbitrage transactions the various rates of exchange of any one place form a whole, and move together. It is unfortunate that these transactions, whose influence upon the international movement of money, and thereby upon the general commercial interests of the countries concerned, is so important and beneficial, are often misunderstood, and are fettered by taxes which are the result of a misconception of their nature and effect.

<sup>†</sup> New York.—Up to the close of 1873 the rate of exchange in New York on London was quoted with a premium based on the assumption that 4½ shillings were equivalent to \$1, that is, that 444 cents were equivalent to a sovereign. An act of Congress of March 3, 1873, abolished this obsolete valuation of sterling exchange, and it came to an end on January 2, 1874. Contracts based on it are null and void. In consequence, the rate of exchange on London is now calculated directly at so many dollars for the pound sterling, the basis being an assumption that the pound sterling equals \$44 [sic in the original]. When specie payments were suspended, at the beginning of the civil war in 1861, paper depreciated and a premium set in which reached 5 per cent. in January, 1862, amounted to between 1½ and 2½ per cent. in March, 1862, then rose suddenly, until in July, 1864, it reached its maximum of 185 per cent. Since the close of 1878 paper has been at par with gold.

In former times the possible variation in the rate of exchange (speaking, of course, only of countries having a fixed gold standard) was much greater than it is now. At present the expense and the loss of time in making remittances of gold are reduced to a minimum. The gold point—that is to say, the point at which gold is likely to be shipped—is as follows for the important rates of exchange:

	Par.	Outflow of gold.	Inflow of gold.
Rate in— Berlin on London	20. 43	20. 33	20. 52
	25. 225	25. 125	25. 325
	12. 11	12. 02	12. 17
	4. 867	4. 827	4. 90
	81. 00	80. 56	81. 37

This table refers, of course, only to the rates on sight bills or bills falling due at very short dates. For other bills the date for which they are drawn and the rate of discount in the place on which they are drawn must of course be taken into account.

The average rates of exchange given in our tables have been calculated by taking the quotations at the end of each month in the year, and ascertaining from them the average of the year.



VARIATIONS IN GENERAL PRICES AND IN THE PURCHASING POWER OF GOLD.

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# VARIATIONS IN GENERAL PRICES AND IN THE PUR-CHASING POWER OF GOLD.

In order to judgeof the present and future demand for money, and to solve the general problem of prices and of money, it must be remembered above all things that in modern times a great change has taken place in conditions of essential importance for that problem. The development of credit and of banking has revolutionized the conditions on which the use of money depends, as much as the development of railways and of steamships, the Suez Canal, and the telegraph, have revolutionized the business of transportation. Comparisons with the monetary experiences of former times still have an interest and a lesson for us; but they are apt to lead to wrong conclusions, because the conditions of the present time have become so entirely different. In ancient times and in the Middle Ages the actual supply of the precious metals was the most important factor in making prices, that is, the value of commodities in general expressed in money. Where barter took place money prices were not affected, and credit transactions played no important part. When the mines of Laurion caused considerable sums of money to flow into the channels of trade, prices in Greece rose at once. In Rome the influx of gold and silver from the treasures of the provinces caused a considerable rise in general prices. On the other hand, in the time of Charles the Great, and for a considerable period before and after his time, we find surprisingly low prices, obviously the result of the scarcity of the precious metals in the channels of trade. Differences of opinion may exist as to how great the rise was in the prices of all commodities at the close of the sixteenth century and first half of the seventeenth; but it is certain that the cause of so great and permanent a rise in prices is to be sought in the extraordinary increase in the production of the precious metals which took place at that time. As this increase of production went on, some economists of the eighteenth century thought that the flow of silver to the East was a blessing for Europe, since without it an unendurable rise in prices would have taken place.

In the period from 1815 until about 1840 Europe's supply of precious metals fell off, in consequence of the decrease in the gold production in Mexico and South America. Huskisson and W. Jacob, the English economist, believed that this was the chief cause of the depression of

trade and the low prices of commodities during that time.

This opinion was then almost universally entertained; but before long

doubts began to be expressed.

In a work published in 1843 by J. Helferich, entitled "The Periodic Changes in the Value of the Precious Metals from the Discovery of America to the Year 1830," it is said:

At the beginning of the period between 1815 and 1830, when the stream of the precious metals had been suddenly interrupted, we find, notwithstanding the decrease in the circulating medium of Europe, about the same prices that ruled on the

Continent at the time of the greatest accumulation of gold. \* \* \* It seems to be a characteristic of modern trade that money, as a medium of exchange, tends more and more to lose its influence upon the prices of commodities. the metallic medium of exchange, so far as they occur independently, and not merely in consequence of the state of trade, are of insignificant importance compared to the extraordinary variety of possible changes in the course of trade. At all events, they are not worth considering as compared to those great changes which credit is constantly able to bring about. It is the characteristic of credit that it is able to draw a line between the two functions of money, its function as a measure of value and its function as a medium of exchange. It creates a medium of exchange without touching the measure of value. It can make any commodity the medium of exchange, while metallic money remains the standard of value. \* \* In earlier times, when there was no other medium of exchange than that which was also the measure of value, when insecurity of property and scanty development of trade prevented the use of credit, then changes in the only existing medium of exchange, a medium which stood by itself because no other commodity was in universal demand, necessarily exercised a great effect on prices. The situation is essentially different at the present time. \* \* \* The greater the range of commercial transactions, the less is the influence exercised on the movement of prices by gold as the medium of exchange, and the more independent is the movement of prices.

Helferich's conclusion is that the prices of commodities are fixed only by causes inherent in themselves [nach deren eigener Wertbestimmung], and that gold is called cheap or dear according as the level of prices is high or low. Variations in the value of money are consequences of changes in the value of commodities, and not their cause.

At the beginning of the decade 1850-'60 the prices of a number of important articles rose considerably, at the time when the extraordinary production of gold in Australia and California took place. This was supposed to be the natural result of the remarkable increase in the medium of exchange, and it was considered needless to search for other causes.

When this general rise of prices ceased, after the speculative years. 1872-773, and when in many branches of trade a continuous fall in the prices of important commodities set in, the change was ascribed, in accordance with the Quantitäts-Theorie,\* then generally entertained, to the cessation of the coinage of silver in all European states, and to the appreciable decrease in the production of gold, combined with the increased demand for gold. A very weighty statement to that effect was made by Mr. George Goschen, in his address at the Institute of Bankers, April 18, 1883, "On the Probable Results of an Increase in the Purchasing Power of Gold." Mr. Goschen pointed out that since 1871 Germany, the United States, Italy, and the Netherlands had absorbed, in consequence of their adoption of the gold standard, about £200,000,000 sterling of gold. This absorption had coincided with a considerable decrease in the production of gold, the production having fallen off £10,-000,000 sterling per year. Mr. Goschen laid it down as an axiom, universally accepted, that the prices of commodities were affected by the quantity of the circulating medium, which, indeed, found its expression The extraordinary demand for gold must have brought about a general decline in prices. This reasoning was confirmed by the great fall in prices of important commodities which had taken place in 1883 as compared with 1873. Such a comparison showed a general fall, although exceptional circumstances had maintained the prices of a few articles. Mr. Goschen does not expressly state, yet he obviously believes, that the demonetization of silver in many countries, bringing about an extraordinary demand for gold, has been the real cause for the fall in prices. This belief is in harmony with his statements made at the International Monetary Conference in Paris, in 1878, to the ef-

<sup>\*</sup> The theory that prices vary with changes in the quantity of money.

fect that the continued demonetization of silver would bring about a financial and commercial catastrophe such as had never before been seen. The opinion of Mr. Goschen, that the appreciation of gold was the true cause of the general fall of prices, has been accepted in many quarters in England, and has been accepted still more generally by the champions of bimetallism on the Continent.

Mr. Giffen published in the Contemporary Review for June, 1885, an essay following the same train of thought (Trade Depression and Low Prices). We will give the essential points in Mr. Giffen's essay. As a proof of the extraordinary fall in prices the presents a comparative statement of the wholesele prices of sixteen important articles.

ment of the wholesale prices of sixteen important articles.

Prices of leading wholesale commodities in January, 1873, 1879, 1883, and 1885, compared.

Year.	Scotch plg-iron, per ton.	Coals, per ton.	Copper, Chili bars, per ton.	Straits tin, per ton.	Wheat, Gazette average, per quarter.	Whoat, red apring, at New York, per bushel.	Flour, town made, per sack.	Flour, Now York price, per bar- rel.
1873	s. d. 127 0 43 0 47 8 41 9	8. d. 30 0 19 0 17 6 18 0	£91 57 65 481	£142 61 93 771	8. d. 55 11 39 7 40 4 34 11	\$1.70 1.10 1.18 .91	8. d. 47 6 37 0 38 0 32 0	\$7.50 3.70 4.30 3.25
Year.	Beef, inferior, per 8 pounds.	Beef, prime small, por 8 pounds.	Cotton, mid- dling upland, per pound.	Wool, per pack.	Sugar, Manila, nuscav., per cwt.	Coffee, Ceylon, good red, per cwt.	Pepper, black Malabar, per pound.	Saltpeter, for- eign, per cwt.
1873 1879 1883 1885	9. d, 3 10 2 10 4 4 4 0	6. d. 5 8 4 9 6 0 5 4	d. 10 51 518 6	£23 13 12 11	e. d. 21 6 16 0 16 6 10 0	#. d. 80 0 65 0 78 6 71 0	d. 7 41 53 8	2. d. 20 0 19 0 19 0 15 3

Mr. Giffen adds that for about fifteen years after 1845-'50 prices had tended to rise. From 1860 to 1873 they had, upon the whole, been stationary, fluctuating between certain maximum and minimum prices; after 1873 a distinct tendency towards a fall was noticeable, the oscillations being about the same as those occurring before 1850, while the general level was somewhat lower.

Two causes, he continues, have been assigned for the fall of prices since 1873. In the first place, the great increase in the quantity of commodities and the diminution in their cost of production, resulting from the progress of industry and of the means of transportation, from cheap freight rates, the telegraph, etc. In the second place, the comparative scarcity of gold, of which the production had fallen while the demand for it had risen. Mr. Giffen lays more stress upon the second cause. He believes it to be immaterial whether commodities increase in quantity or gold decreases (or fails to increase at the same rate as commodities increase). In either case the ratio between gold and commodities is changed. If the production of gold had increased and its cost of production had diminished to the same extent as in the case of commodities, the increased supply of commodities would have shown itself in a rise of money wages, of ground rents, and of business profits, but not in low

prices of commodities. If the latter phenomenon has set in, it is an absolute proof that the ratio between gold and commodities has changed, and that the same increase in their quantity and the same diminution in their cost of production have not set in. Mr. Giffen points out, as Mr. Goschen had done, that the annual production of gold had averaged £30,000,000 sterling between 1852 and 1856, and in recent years has fallen to less than £19,000,000 sterling. On the other hand, Germany, the United States, Scandinavia, Holland, and Italy had absorbed for coinage about £200,000,000 sterling in the last thirteen years. Moreover, the money market had indicated a scarcity of gold. It has been said that a scarcity of gold in the last ten or twelve years would have shown itself in higher rates of discount and interest than those that had prevailed at the time of the abundance of gold, and, since no such higher rates were to be seen, that gold had not been scarce. But Mr. Giffen answers that for longer periods the rate of discount and of interest depends, not on the scarcity or abundance of gold, but on the scarcity or abundance of loanable capital. A scarcity or abundance of gold influences the money market by bringing about monetary difficulties, and times of temporary embarrassment and lack of credit. state of things would either check the tendency to rising prices or increase the tendency to falling prices. The average rate of discount during the whole of such a period of sudden rises in the rate of discount might be lower than the average rate in times when such rises were less frequent. Nevertheless the mere existence of a series of such rises would suffice to exercise a depressing effect on prices. Now he points out that the history of the money market since 1871, when Germany began to procure gold from London, was full of sudden rises of this kind. They have happened in every year, except 1879 and 1880, and they are to be ascribed to the unusual demands for gold and to the difficulty of fulfilling those demands. These facts lead unavoidably to the conclusion that the general course of prices in modern times, so remarkably different from the course of prices after the Californian and Australian gold discoveries, was the result of the decreased production of gold and the increased demand for gold. It has been objected that the increase of banking facilities and other economies in the use of gold have offset its scarcity, but Mr. Giffen's answer is that in the period from 1850 to 1865, and in the subsequent period up to 1873, such economizing devices had been, in comparison to the transactions of those times, equally considerable. The rise in wages, in ground rents, in business profits, which took place during the earlier rise in prices, has ceased since 1873, a state of things resulting naturally from the scarcity of gold. But he says, in conclusion, that we are still too near these phenomena to have comprehensive information in regard to them.

Mr. Giffen has repeated his opinion that the decrease of the production of gold and the increase in the demand for it have been the causes of the decline in prices, and has cited further facts in support of it, in his essay entitled "Gold Supply, the Rate of Discount, and Prices" (Essays in Finance, 2d series, London, 1886). As might be expected, Giffen does not maintain the so-called Quantitäts-Theorie in the crude form in which it had been applied to a simple economic state where credit was little or not at all developed. He takes account of the complicated development of modern trade, with its extended banking and credit system. He repeats that the expedients for economizing the uses of gold have already reached a complete development. Other things remaining the same, the increase of population and of production will still call for a corresponding increase in the coin for ordi-

nary transactions and for the reserves of banks, if a fall in the general level of prices is to be prevented. A scarcity of gold would show itself first in the reserves of the great banks and through them, indirectly but inevitably, in the rate of discount and in prices. He therefore believes that, unless an increase in the supply of money takes place, a further fall in prices is inevitable.

We have not space to give Mr. Giffen's discussions in detail, but it should be said that they take first rank among those maintaining the validity of the Quantitäts-Theorie in our present complicated system of

industry.

The bimetallists of Germany, as a rule, accept with little qualification the conclusions of Messrs. Goschen and Giffen in regard to the effect of a scarcity of gold upon general prices. Sometimes this is done with qualifications. Dr. Arendt, in number 11 of the publications of the German Society for International Bimetallism, expresses himself as follows:

It is as false to suppose that there is a mathematical agreement between the general state of prices and the amount of money in circulation as it is to deny entirely the connection between these two things. Slight fluctuations in the quantity of money will have no effect. Great fluctuations, on the other hand, for instance, a great increase in the quantity of paper money, will certainly have their effect on prices. But this factor is not an all-important one. In modern times most prices are governed, not by the industry of a single country, but by that of the world at large. Here it is, in our opinion, that the gold standard, whatever be our general theories, has undoubtedly been of practical effect in bringing about the fall in prices. Within any one country the development of credit has made it certain that the amount of money in circulation will accommodate itself to the demand. If the demand increases the quantity of uncovered notes increases, the bank reserve declines, the rate of discount rises, and a higher rate of discount attracts the precious metals from abroad. If, on the other hand, the amount of money in circulation exceeds the demand, coin accumulates in the banks, the rate of discount falls, and coin flows to places where it is more in demand. This healthy development of trade is checked nowadays only by the scarcity of gold, which causes every country to watch jealously its holding of gold, since no one knows whence gold, once lost, may be reobtained. In a sense, therefore, the amount of money in circulation depends on prices, and not prices on the amount of money. But this principle holds good only for a single country, not for the world at large, and it is in the world at large that general prices are fixed.

It is not to be denied that the production of the precious metals has always exercised an extraordinary effect on general prices. This fact, hardly to be doubted, may have led to undue emphasis in stating the connection between the quantity of money and prices. For ourselves, we deduce an indirect Quantities-Theorie. A single country, by means of the rate of discount, regulates its circulation according to its needs. If an abundant supply of the precious metals sets in, a low rate of discount will prevail on all hands, and thereby a stimulus will be given to production; on the other hand, a scant supply of the precious metals will lead to an insufficiency in the circulating medium, and then the attempt must be made, as it is now made in England, to attract precious metals by means of high rates of discount. Other countries, which can afford to lose no precious metals, are affected by such action, so that the rise in the rate of discount becomes general, as is seen, for instance, in the rise in the rate of discount at our Imperial Bank. Such a state of things necessarily im-

pedes production.

The direct demand for commodities resulting from the newly-produced precious metals is a more important factor. The mine owner wants consumable commodities; he must have articles of food and comfort. The work [verdienst], which he supplies,

acts on and on, and everywhere stimulates profitable labor.

At the present time we have to deal with a phenomenon which can not be fitted exactly to the scientific rule, namely, the depreciation of one metal which had served as money. The depreciation of silver is, to our mind, an important cause of the fall of prices, and therefore the Quantitäts-Theoris does not give a final explanation. The adherents of the gold standard maintain that the restoration of the value of silver would mean a depreciation of gold by 20 per cent., and for that reason they are bitterly opposed to the double standard; but if this be true, the converse must also be true, and the depreciation of silver by 20 per cent. must have caused the value of gold to rise by 20 per cent. It is said that bimetallism will cause a depreciation of gold by 20 per cent., that is, a rise in prices of 20 per cent. But then it must be ad-

mitted that the present prices have fallen by 20 per cent. in consequence of the gold standard. The fundamental difficulty of our time is found in the low range of prices. We can not be frightened, therefore, if a depreciation of gold, that is to say, a rice of prices and a return to normal industrial conditions, is prophesied as the lamentable consequence of bimetallism. We do not go so far as the adherents of the gold standard. We believe that the depreciation of silver has decreased prices, because silver-using countries (Eastern Asia, America) have had a diminished purchasing power, and have been able to buy European products only at lower prices or not at all. At the same time the increased demand for gold had prevented the weaker countries from maintaining their standards. The premium on gold rose everywhere, in Austria, Russia, Roumania, as much as in Brazil and the Argentine Republic. Consequently these countries were no more able to buy European products than the silver countries, or could buy only at lower prices. At the same time, the decline in the value of their medium of exchange enabled them to export at lower prices to the gold countries. Consequently a double pressure upon prices arose in those countries, such as necessarily arises from a decrease in demand combined with an increase in supply. The scientific bimetallists predicted precisely this state of things. They asserted that the gold standard must lead to a rise in the gold premium, and that such a rise has an effect exactly opposite to that of an import duty; it stimulates imports and checks exports. The bimetallists predicted that protective duties would first be resorted to as an offset to this state of things, but that it would soon appear that protective duties could not offset the increase in the gold premium. This conviction has spread more and more rapidly, and will eventually lead to the victory of the bimetallists. As the depreciated silver has been the direct cause of the fall of prices, so, as is obvious, without any theoretical arguments, the restoration of silver will lead to the return of normal prices. The silver-using countries will become profitable purchasers of European products, the premium on gold will decline in the countries that have a paper currency, the differences in the value of coin in different countries will diminish or disappear, the import of commodities into the gold countries at sacrifice prices will cease, demand will increase, supply will diminish, prices will rise.

A recent publication, entitled "The Silver Question and its Social Aspects: an Inquiry into the Existing Depression of Trade and Present Position of the Bimetallic Controversy," by Hermann Schmidt (London, 1886), maintains most emphatically the view that the low range of prices and the depression of trade are to be ascribed to the appreciation of gold, which again is due to the depreciation of silver. The causes which the opponents of this view have brought forward, such as the cheapening of commodities, the great increase in their quantity, the improvements in transportation and in the arts generally—all these had been in effect before 1879, without then causing any general and permanent fall of prices. Such a fall had set in only with the depreciation of silver that resulted from mistakes in the coinage policy of various countries. It is not true, says this writer, that the facilities in the use of money through banking and credit give a sufficient substitute for the diminished supply of metallic money, nor do they serve to render the scarcity of gold a mere scarecrow. These substitutes have been in use in earlier years, and can not be employed without a sufficient basis of coin. If substitutes for coin do not come into increasing use, as trade and demand increase—if, on the contrary, the demonetization of silver and the decline in the monetary gold supplies check their use then the stimulus to the easy action of money by the use of credit must also be checked, and prices will fall even lower. A remedy can be found only in international bimetallism.

The view that the scarcity of gold and the depreciation of silver are the true causes of the continued fall in prices and the depression of trade is met, on the other hand, with the assertion that these events, in so far as they really have taken place, stand in no connection with the silver question, but may be explained easily and sufficiently in other ways.

Mr. Hansard, in an address presented on December 17, 1884, to the Institute of Bankers, entitled "On the Prices of some Commodities

during the Decade 1874-'33," has endeavored to show that the cause of the fall in prices lies not in a searcity of gold, but in an overproduction of commodities. He maintains the same view in his testimony presented on May 31, 1886, to the British commission for investigating the causes of the depression of trade. He believes that no real scarcity of gold has been felt in England, as is proved by the low average rate of discount which the Bank of England has maintained for the last ten years. Moreover, a rise in the purchasing power of gold and a fall in general prices are one and the same thing, and therefore one of them can not be the cause or the consequence of the other. Mr. Hansard has shown in detail the remarkable increase in the production and stock on hand of twenty-five important articles, and presents the following comparative statement, in percents, of prices and stocks:

. At the close of—	Stocks.	Prices.	At the close of—	Stocks.	Prices.
1874	2545	2500 2360 2504 2248 2140	1879 1880 1881 1882 1883	3333 3361 3363	2460 2194 2232 2114 2111

Twenty-one of these articles show a fall in price, and in part a considerable fall, in 1883 as compared to 1874, namely: Sugar, tea, coffee, rice, indigo, ginger, wool, cotton, jute, cochineal, soda, saltpeter, hides, tallow, timber, iron, copper, tin, wheat, coal. Four articles do not participate in the general fall, cocoa, paper, silk, and meat, but the rise in their prices is very slight.

The need of gold for effecting payments is constantly lessening, according to Mr. Hansard. The use of credit in the form of checks is constantly increasing. The transactions through the clearing-house, in which not a single gold piece is used, show a steady increase. annual transactions of the London clearing-house were, in the years 1871-75, £23,613,000,000 sterling, while in the years 1881-785 they were £29,816,000,000. The use of checks by people of small means is extending; the growth of banks and of branch banks throughout the country causes a class of customers to arise who formerly used nothing but gold or bank-notes for their daily payments, and now use checks to a large extent. If an increase in bank facilities had not taken place side by side with the great growth of imports and exports, prices would have fallen still lower. The postal savings banks, whose deposits have risen gradually to £45,000,000 sterling as against £15,000,000 in 1870, have attracted gold coins from the pockets and hoards of people of small means, and have promoted a quicker circulation of coin. The sovereign is becoming a standard of value rather than a coin. Mr. Hansard finds the chief cause of the fall in prices and the depression of trade in overproduction and excessive supply. Overproduction is the result of the increased use of steam in manufactures and in transportation. The development of the railroad system of India, of the United States, of South America, the improvement and cheapening of transportation by sea, the saving of time by the Suez Canal, all these have brought new supplies of many important articles. The development of the jointstock principle has aided in stimulating production, even though dividends have been low. The growing use of the telegraph has tended to increase the effective supply of commodities. In the distribution of goods, smaller stocks are required, since orders can now be filled in incredibly short time, yet stocks have accumulated in large amounts.

Prof. E. Nasse, in a discussion of the silver question, published in the Preussische Jahrbücher for March, 1885, has also touched on the alleged effect of the scarcity of gold, and has expressed his views, in essentials, as follows:

A general fall of prices as compared with the times that preceded the speculative period 1871-74, has not been shown to exist. The fall has been clearly proved only for the more important commodities of wholesale trade, especially for raw materials and articles half manufactured. No fall has been proved in the wages of ordinary or

skilled labor, in retail prices, and especially not in finished commodities.

For such change as has taken place a much simpler explanation than a scarcity of gold is to be found. A great diminution has occurred in recent times in the cost of production of a number of commodities, and especially of those commodities which are generally selected in order to ascertain changes in the value of money. The opening of new and fertile regions in almost all quarters of the globe, and the rapid extension of the arts of civilization, has rendered it possible to produce with less labor and capital almost all agricultural products and many mineral products. Improvements in the means of transportation have enabled these articles to be brought more cheaply to European markets. \* \* \* In addition to this improvement in the production, and fall in the price, of the most important raw materials, the manufacturing arts are also constantly advancing, and cheaper and better methods of production are being discovered. Striking examples are to be seen in the production of steel, of sugar, of important dye-stuffs, and in the great saving of expense by the growth of large establishments and of production on a great scale. Lastly, the cost of transportation, which forms so important a part of the cost of many commodities, has undergone an extraordinary change. a decrease in the amount of labor and capital needed for production must have an effect on money prices, if money possesses the qualities of a good measure of value. If the causes directly affecting the value of money undergo no change, a widespread fall of prices must set in. Only if there had been a tendency toward cheaper money as powerful as that for cheaper commodities, would it have been possible that commodities should retain their former prices. \* \* \* Still another consideration makes it improbable that the fall in prices is to be explained from a scarcity of money. A scarcity of money in the present condition of banking in Germany, England, and other countries will first make itself felt in a demand for gold at their banks. Firms or persons who need the means of making payments get their supplies from the smaller or larger banks with whom they deal, and deposit any surplus in those banks. " " " The banks, however, are directly or indirectly connected with the great central banks, which alone are able to increase the medium of exchange, by increasing their note circulation or diminishing their holdings of coin. They also absorb any surplus in the medium of exchange, when notes are paid, loans on collaterals are paid, or deposits are received. \* \* \* Every demand for money is soon translated into a demand for loans at the Imperial Bank. The bank raises or lowers its rate of discount as the demand is large or small, and a scarcity of money must therefore show itself in high rates of discount; but no such effect can be traced in recent years. \* \* \* In most civilized countries a very small proportion of transactions is carried on with full-weight coin. Larger payments are effected by bank-notes or by bank balances and clearing-houses, while small payments are effected by credit coins. The practice of effecting payments by the transfer of credit, or by offsetting debts, is susceptible, without any increase in the coin supply, of great extension; and a comparatively small growth of this practice serves to offset a considerable decrease in the production of gold. Credit has a steady tendency to counteract an excess or a deficiency of gold, and a lack of means of payment does not easily occur so long as credit is not shaken. " " No proof has yet been adduced that a scarcity of gold has caused any change in the value of money in countries having the gold standard. All the facts referred to in proof of such an assertion are susceptible of a different explanation.

A report published in the Mitteilungen des Vereins z. W. d. w. I. in Rheinland und Westfalen, for June, 1885, also maintains that the scarcity of gold is not the cause of the fall of prices, but that this fall, in so far as it must be admitted to have occurred, is the result of independent causes. It is said:

We see that, in the main, those articles have fallen in price which can be produced in almost any desired quantity in a comparatively short space of time. Other articles have fallen in price much less, for instance, fresh meat, pelts, hides, etc., which cannot be increased in quantity as rapidly as metal and textile products. Consequently the former have not fallen in price as much as the latter; on the contrary,

they have rather risen. Of course, there are exceptional cases, caused by the competition of new countries or the cheapness of a competing substitute, as, for instance, the case of wool. It can not be asserted that the fall in prices is due to a scarcity in the circulating medium. Such a scarcity must first be proved. The diminution in the production of gold by no means proves that such a scarcity exists. The trade of modern times, especially in those branches in which it has most largely increased, is carried on less and less with coin and more and more by the use of bills, of discounts, by arbitrage, and in other ways in which coin is the standard, but it is not used in making payments. The general rate of interest and the rate of discount to merchants have lowered in the last ten years. If, nevertheless, business men find that their position has become less satisfactory, this can not be ascribed to a lack of circulating medium resulting from the gold standard, but must be explained in other ways. The great cause is the extraordinary increase in modern times, the excessive increase, in the supply of all kinds of salable commodities. Railroads and steamships bring commodities to market much quicker than the carrier and sailing vessel of former times, while the telegraph enables the same supply to be offered contemporaneously in many markets. Offers are pressed, prices fall, and the effect is intensified because the improvement in means of communication renders it needless to keep considerable stocks on hand. The same fall in prices has taken place in countries using a depreciated paper money, which indicates that the fall is not to be ascribed to an appreciation of gold.

It is then stated that when the great investments of capital in railroads in almost all the civilized countries came to a close, a large amount of labor and capital became free, and most of it was devoted to producing commodities for immediate consumption. This increase in production, and not an increase in the purchasing power of gold, has caused

the great fall in prices.

M. Paul Leroy-Beaulieu writes in the same sense in an essay in the Revue des deux Mondes, May 15, 1886, which has been translated into German under the title, "The Fall in Prices and the Crisis in the World's Trade." In the preface to this translation it is pointed out that the difficulties under which the trade and industry of the whole world suffer are not to be put in the class of those temporary troubles which are the result of exceptional disturbances or previous excesses, and are soon followed by a return to normal conditions. It is said, in agreement with M. Leroy-Beaulieu, that the world's trade is entering on an entirely new phase, whose causes and effects are so deep rooted and on so large a scale that all explanations based on temporary and accidental events and measures must at once be set aside as false. Moreover, all artificial interference, resting on a superficial understanding and making a superficial attempt at improvement, is mistaken, and can result only in harm.

M. Leroy-Beaulieu denies, in a detailed discussion, the proposition that the depreciation of silver and the decrease in the production of gold are the causes of the fall in prices. The cause is to be found in the opening of new lands, in the ease of transportation from all countries, in the greater yield of newly-invested capital, in the improvement of the means of communication by sea and by land, in the decline in ocean freights and in railroad rates, and lastly in the mechanical and chemical advances made in all branches of manufacture. It is by no means necessary, in order that prices should be maintained, that the quantity of the precious metals forming by law or by custom the standard of value should increase in proportion to the extension of volume of trade. The telegraph, among other causes, diminishes markedly the use of the precious metals in international trade. The methods of offsetting payments in different markets have greatly developed. The development of international trade in securities has made it possible to send capital abroad without the transportation of a grain of gold or silver. The use of bank-notes has penetrated to all classes, and checks have become a more common medium for payments. The precious

metals, accumulated as they now are in the great banks, suffer less from abrasion, from transportation, from accidental loss, and from hoarding. The whole world is adapting itself to a diminished use of precious met-

als, both in domestic and in foreign trade.

We have presented, without criticism of our own, these opposing opinions, from some of the best-known authorities, on the causes of the fall in prices in modern times. Such an unbiased report, in which it is likely that all the more important causes and points of view will be brought out, or at least sufficiently indicated, seems essential, at the present stage of the silver question, to the completeness of our Materials.

The discussions cited in the preceding paragraphs are concerned almost exclusively with wholesale prices. But these are not alone to be considered—perhaps they are not chiefly to be considered—in judging

of the purchasing power of gold.

While merchants and manufacturers in recent years are complaining more and more of scarcity of gold, of a fall in prices, and a depression of trade, we hear, on the other hand, from quarters that deserve quite as much attention, complaints of the dearness of living and the fall in the value of money. The steady demand for higher salaries and wages is obviously quite opposed to the alleged appreciation of gold, and, indeed, is based on the assertion that the purchasing power of gold has not risen, but rather fallen. It is true that the main increase in living expenses belongs to the period from 1856 to 1873. But even in recent years, from 1878 to 1885, such an increase has continued in many respects, as, for instance, in rents in the larger cities, in the wages of servants, in professional fees, in the price of many handicraft articles. mainly due to the rise in the standard of living among all classes; the consequence is that everything which calls for payment of personal services has become dearer than in former times. Among the well-to-do, luxury and expense have increased appreciably even during the last decade. Every class in the population wishes to imitate the mode of life in the class just above it, and everywhere those expenses which are considered necessary, or conventionally proper, show an increase. family which required ten and twenty years ago, say 20,000 marks per year to meet the expenses required of its rank in society, finds its budget for the same expenses rise to 25,000 marks. In the same way, a working-man's family believes that a weekly income of 20 to 25 marks does not suffice, whereas 15 or 20 marks used to enable it to make both ends meet. For many classes of subordinate officials, for teachers in the public schools and other institutions, clergymen, officers, for pensioned widows, greater sums are asked and generally are granted. The decisive reason and generally the only one alleged in support of such changes is the fall in the value of money and the consequent greater dearness of living. The decline in prices which it is attempted to prove from prices current and statistical tables, is said in practice to make no difference.

It appears, then, that the reasons brought forward to prove the increase and the decrease in the purchasing power of money are opposed to each other. It must be admitted that there is a certain degree of foundation for both views—everything depends on the point of view.

Obviously it would be a mistake if we were to pay no attention to changes in the cost of living, and were to consider only wholesale prices, when attempting to measure changes in the value of money. We shall pay attention, in accordance with the object of the present publication, chiefly

to the prices of commodities, and shall return to their detailed consideration. But we should treat the subject very incompletely if we were not to present at least some statistics on wages and the cost of living. It will be necessary, however, to content ourselves with a few selected statements.

In regard to changes in wages since 1848, we are able to present a statement which differs from other and doubtless interesting statements in one important respect. It presents continuously the wages paid by a public authority to a large number of persons for the same work for a period of thirty-nine years. As will be seen in due time, the most important statistical material which we shall present on prices is derived from the trade of Hamburg. The reader will therefore welcome statements of the purchasing power of wages for ordinary labor, which also refer to Hamburg.

Daily wages paid by the Building Commission at Hamburg from 1848 to 1886.

Waar.	mi	Stone-	Mas	ons.	Assista mas	ants to			Working day, from	
Year.	Zimo or jear.		cutters.	First class.	Second class.	First class.	Secona class.	LAD	orers.	morning to even- ing.*
		Marks.	Mo	rks.		rks.	Мо	irks.		
.848	Summer			o 2.40		o 1.50		io 1.35		
	Winter	1. 80		1. 80		1. 35	1.05	1. 20		
850-'51				40		50	1. 20	1. 35		
	Winter			10		35	1.05	1. 35		
18 <b>56</b>				o 2.70		80	1.50	1.80		
001	Winter			2.55		65	1.35	1. 65	,	
1861	Summer		2. 55 2. <b>2</b> 3	2. 70 2. 55	1. 80 t 1. 65	o 1. 95	1. 50 1. 35	1. 80 1. <b>65</b>		
	W Into:		2. 20	2. 33	1. 05	1. 80	1. 55	1.00		
867	Summer	3. 60	2.70	2. 55	2.	10	1. 65	1. 80	6 to 7	
	Winter	3. 30	2.40	2. 25	1.	95	1. 50	1.65	7 8	
1701		3. 60	3, 00	2.70		25	1.80	2. 10	6 7	
	Winter	3. 30	2.70	2.40		95	1. 50	1.80	7 8	
871	Summer	3. 60	3. 00	2.70		25	1. 80	2. 10	6 7	
	Winter	3. 30	2. 70	2, 40	1.	95	1. 50	1. 80	7 8	
872	Summer	3. 90	3, 30	3. 00	2, 55	2. 40	1. 80	2, 40	6	
	Winter	<b>3. 6</b> 0	3.00	2.70	2, 25	2. 10	1. 50	2. 10	7 8	
. <b>873</b>		4. 95	3. 30	3.00	2.70	2. 55	1.80	2.40		
	Winter	3. 75	3, 00	2.70	<b>2</b> . <b>4</b> 0	2. 25	1. 50	2. 10	6 7 8 6 7 8 6 7 8 6 7 8 8 8 8 8 8 8 8 8	
874-'78;	Summer	4. 65	3. 90	3. 60	3. 30	3. 15	2. 25	8. 00	6	
070 105	Winter	4. 35	3. 60	3. 30	3, 00	2.85		2. 70	7 !	
879-'85		4. 65	3. 90	3. 60	3. 30	3. 15	2. 25	3. 00	1 - '	
	Winter	4. 35	3. 60	3. 30	3. 00	2. 85	1. 95	2. 70	7 1	
	Fall	4. 50	3. 75	3. 45	3. 15	3, 00	2. 10	2. 85	6	
886	From Mar. to Nov.	4. 65	3. 90	3. 60	3. 30	3. 15	2. 25	3, 00	6	
886-'87	From Nov. to Mar.	4. 35	3. 60	3. 30	3. <b>0</b> 0	2. 85	1. 95	2. 70	7	

<sup>\*</sup>Inclusive of interruptions for breakfast, dinner, and supper, which amount in summer to two hours all told. At other seasons of the year the interruptions are shorter.

† Up to the close of the year 1868 tools were supplied to the workmen by the authorities. Since 1868

If we take the average of winter and summer wages as given in these tables, and also the average of the general statements where winter and summer wages are not specially stated, and if we reckon 304 working days to the year, we arrive at the following statement of the difference in money wages in the last thirteen years as compared with the years

the workmen have furnished their own tools.

Since 1874 record books were introduced for the workmen, and an organization for their care in case of sickness went into operation.

1848-'51. We insert a statement in per cents for more easy comparison:

<b>Tearly</b>	100000
1 carty	wages.

Occupation.	1848-	-'51.	187 <b>4</b> –	78.	1879-	<b>'86.</b>
Stone-cutters	<i>Marks.</i> 638. 40	Per cent.	Marks. 1, 868. 00	Per cent. 198.00	Marks. 1,368.00	Per cent. 198.00
First class	<b>632. 3</b> 2	100	{ 1, 140. 00 { 1, 048. 80	180. 29 165. 87	1, 140. 00 1, 048. 80	180, 29 165, 87
First class	422. 56	100	<b>957. 60 912. 00</b>	226. 62 215. 83	957 <b>. 66</b> 912. 00	226. 62 215. 83
Laborers	<b>367.</b> 20	100	752. 40	204. 55	<b>752. 40</b>	204. 55

A trustworthy and important contribution toward understanding the changes in the cost of living in Germany can be found, we believe, in the following tables of the salaries of employés on the state railways of Prussia, in the years 1850, 1872, 1880, 1885. The gradual advance in these salaries is the result, in the nature of the case, of the belief that the old salaries no longer gave the employés a sufficient income, that is, an income sufficient for their station in life. Each class of employés is specified, and they are divided into different categories, so that we are able to follow in detail the changes in these incomes. The salaries in the two lower categories have risen appreciably more than those in the upper category. The two lower show an increase from 1850 to 1885 of 74.4 per cent. and 102.5 respectively, while the upper shows an increase of 46.6 per cent.

The figures of this table are taken from the printed documents of the Prussian Landtag, second legislative period, third session, 1872-'73, number 148, and from the "Statement of the employés of railroads operated by the state, of their regular salaries, etc." (Supplement B., 5, to the Budget of the Prussian Railways for 1886-'87.)

Salaries of Prussian railway employés in 1850, 1860, 1872, 1886.

<b>E</b> mployés.	By the tions o	general f Noven 1850.	regula- iber 5,	1860.		
	Max.	Min.	Average.	Max.	Min.	Average.
First class.						
69.4 AB A . 9	Marks.	Marks.	Marks.		Marks.	Marks.
Station watchman		750	900	†1, 200	900	1,050
Track man		750	900	11, 200	900	1, 050
Signal man	<b>-450</b>	860	405	540	360	450
Switch man:		1		1	i	
First class		375	405	720	450	585
Second class				, t	(	
Porter	*750	450	600	900	450	675
Night-watchman	· • • • • • • • • • • • • • • • • • • •	`	*300	450	360	405
Fireman		540	645	1 900	600	750
Conductor		750	825	1,000	750	2:10
Baggage man		540	645	900		720
Guard		450	525		450	585
Brakeman	*600	450	525	730		585
Train hand (Wagenmeister)	•••			1,050	750	910
Baggage-master	1 *750	540	645	900	600	750
Weigher	*750	540	645	900	<b>6</b> ∪0	759
Crane hand	1					
Ticket stamper	900	600	750	900	750	825
Telegraph watchman				1,050	900	975
Telegrapher				1,050	750	900
Warehouse keeper				900	750	825
Office porter	<b>*750</b>	450	600	900	450	675
Average			644			756
~·~~~				l	l	

# Salaries of Prussian railway employés in 1850, 1860, 1872, 1886—Continued.

Employés.	By the tions	general of Nover 1850.	regula- nber 5,		1860.	
	Max.	Min.	Aver-	Max.	Min.	Aver-
Second class.	36		36- 1		16	361
Station agent: First class		Marks. 1, 850	Marks	Marks. 2, 100	Marks. 1,500	
Second class	1, 350	1,050	1, 725 1, 200	1, 500	1, 200	1, 800 1, 350
Assistant at station	*1 200	540	870	<b>†1, 200</b>	900	1, 050
Telegraph superintendent	1			2,700	1, 800	2, 250
	1 3000	900	1,050	11, 500	900	1, 200
Shop superintendent  Foreman	<b>₹ 1.800</b>	1, 200	1,500	2, 100	1, 200	1, 650
Foreman Draughtsman	15	•	•	•	,	] -,
ClerkSupply agent:	{ <b>soo</b>	600	750	1, 500	750	1, 125
First class	<b>}</b> *1, 200	540	870	5 t2, 100	1,500	1, 800
Second class	1,		!	{ †1,500	900	1, 200
Cashier at station	*1, 200 900	540 600	870 750	1, 800 1, 200	1, 050 750	1, 425 975
Ticket seller	*1, 200	540	870	†1, 800	1, 650	1, 425
Merchandise forwarder	*1, 200	540	870	†1, 950	1,050	1, 500
Baggage forwarder	*1, 200	540	870	<b>†1, 200</b>	<b>90</b> 0	1,050
Maintenance secretary	1, 800	1, 200	1, 500	2, 700	1,500	1, 050 2, 100
Operating secretary	1, 800	1 000	7 500	1, 650	1, 200	1, 425
Clerks, etc., in general office	<u> </u>	1, 200	1, 500		1, 200	1, 650
Third class.			1,000	====		1, 405
Operating superintendent	4, 500	8, 000	3, 750	4, 500	3, 000	3, 750
Traffic superintendent					. <b></b>	
Building superintendent	2,400	1,800	2, 100	2, 400	1,800	2, 100
Machinery superintendent	3, 600	2, 400	8,000	3,600	2, 400	3, 000
Head of main office		1, 800	<b>2,</b> 100		· · · · · · · · · · · · · · · · · · ·	
Inspectors	3,000	1,800	2, 400	8,000	1, 800	2, 400
General paymaster	3,000	1,800	2, 400	8, 600	2,400	3, 000
Operating paymaster			. <b>.</b>			
Book-keeper	2, 100	1, 450	1, 725	2, 400	1, 500	1, 950
Average		• • • • • • •	2, 496			2, 700
					1886.	
		1872.		1	10001	
Employés,		1872.	<del></del>		10001	
Employés,	Max.	1872. Min.	Aver-	Max.	Min.	Aver-
First class.	Marke.	Min.	age.  Marks.	Marks.	Min.	age.  Marks.
First class. Station watchman	Marks. 1, 650	Min.  Marks. 1, 340	Marks. 1, 500	Marke. 1, 800	Min.  Marks. 1,500	Marks. 1, 650
First class. Station watchman Track man Signal man	Marks. 1, 650 1, 950	Min.	age.  Marks.	Marks.	Min.	Marks. 1, 650 1, 800
First class. Station watchman Track man Signal man	Marks. 1, 650 1, 950 †750	Min.  Marks. 1, 340 1, 350	Marks. 1, 500 1, 650	Marks. 1, 800 2, 100 750 (1, 200	Min.  Marks. 1,500 1,500 660	Marks. 1, 650 1, 800 705
First class.  Station watchman	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050	Min.  Marks. 1, 340 1, 350 660	Marks. 1, 500 1, 650 705 930 930	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050 1, 050	Min.  Marks. 1,500 1,500 660	Marks. 1, 650 1, 800 705 1, 095 930
First class.  Station watchman.  Track man Signal man Switchman: First class. Second class. Porter. Night-watchman	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050	Min.  Marks. 1, 340 1, 350 660 810 810	Marks. 1, 500 1, 650 705 930 930 1600	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050 1, 050 600	Min.  Marks. 1,500 1,500 660 990 810 810	Marks. 1, 650 1, 800 705 1, 095 930 930
First class.  Station watchman  Track man  Signal man  Switchman:  First class  Second class  Porter  Night-watchman  Fireman	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050	Min.  Marks. 1, 340 1, 350 660 810 810	Marks. 1,500 1,650 705 930 930 †600 1,005	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050 1, 050 600 1, 200	Min.  Marks. 1,500 1,500 660 990 810 810	Marks. 1, 650 1, 800 705 1, 095 930 930
First class.  Station watchman  Track man  Signal man  Switchman:  First class  Second class  Porter  Night-watchman  Fireman  Conductor  Baggage-man	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050 1, 200 †1, 200 †1, 050	Min.  Marks. 1, 340 1, 350 660 810 810 1, 050 990	930 930 1,005 1,005 1,005 1,005	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050 600 1, 200 1, 350 1, 200	Min.  Marks. 1,500 1,500 660 990 810 810 900 1,050 990	*ge.  *Marks. 1, 650 1, 800 705 1, 095 930 930 1, 050 1, 200 1, 095
First class.  Station watchman.  Track man Signal man Switchman: First class. Second class. Porter. Night-watchman Fireman. Conductor. Baggage-man Guard.	Marks. 1, 650 1, 950 †750  †1, 050 †1, 200 †1, 200 †1, 050 †990	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780	930 930 1, 005 1, 125 1, 125 1, 020 885	Marks. 1, 800 2, 100 750 { 1, 200 1, 050 600 1, 200 1, 350 1, 200 990	Min.  Marks. 1,500 1,500 660 990 810 810 900 1,050 990 780	Marks. 1, 650 1, 800 705 1, 095 930 930 1, 050 1, 200 1, 095 885
First class.  Station watchman.  Track man Signal man Switchman: First class. Second class Porter. Night-watchman Fireman Conductor. Baggage-man Guard Brakeman	Marks. 1, 650 1, 950 †750  †1, 050 †1, 200 †1, 200 †1, 050 †990 †990	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780 690	930 930 1,050 1,050 1,005 1,020 885 840	Marks. 1,800 2,100 750 { 1,200 1,050 1,050 600 1,200 1,350 1,200 990 990	Min.  Marks. 1,500 1,500 660  990 810 810 900 1,050 990 780 690	Marks. 1, 650 1, 800 705 1, 095 930 930 1, 050 1, 200 1, 095 885 840
First class.  Station watchman.  Track man.  Signal man.  Switchman:  First class.  Second class.  Porter.  Night-watchman  Fireman.  Conductor.  Baggage-man.  Guard.  Brakeman.  Train-hand (Wagonmeister).	Marks. 1, 650 1, 950 1750 11, 050 11, 050 11, 200 11, 200 11, 050 1990 1990 1, 200	Min.  Marks. 1, 340 1, 350 660 810 810 1, 050 990 780 690 960	930 930 1,650 705 930 1,005 1,125 1,020 885 840 1,080	Marks. 1,800 2,100 750 { 1,200 1,050 1,050 1,200 1,350 1,200 990 990 1,350	Min.  Marks. 1,500 1,500 660  990 810 810 900 1,050 990 780 690 1,050	1, 050 1, 095 1, 095 1, 095 1, 095 1, 200 1, 095 885 840 1, 200
First class.  Station watchman.  Track man  Signal man  Switchman:  First class.  Second class  Porter  Night-watchman  Fireman  Conductor  Baggage-man  Guard  Brakeman  Train-hand (Wagonmeister)  Baggage-master	Marks. 1, 650 1, 950 1750  †1, 050 †1, 050 †1, 200 †1, 200 †1, 200 †1, 200 †1, 200 †1, 200 †1, 320	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780 690 960 990	930 930 1, 650 705 930 1, 005 1, 125 1, 020 885 840 1, 080 1, 155	Marks. 1,800 2,100 750 { 1,200 1,050 1,050 600 1,200 1,350 1,200 990 990	Min.  Marks. 1,500 1,500 660  990 810 810 900 1,050 990 780 690	1, 050 1, 095 1, 095 1, 095 1, 095 1, 200 1, 095 885 840 1, 200
First class.  Station watchman  Track man  Signal man  Switchman:  First class Second class  Porter  Night-watchman  Fireman  Conductor  Baggage-man  Guard  Brakeman  Train-hand (Wagonmeister)  Baggage-master  Weigher  Crane hand	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050 1, 200 †1, 200 †1, 200 †1, 320 †1, 320 †1, 320 1, 050	Min.  Marks. 1, 340 1, 350 660 810 810 1, 050 990 780 690 960	930 930 1,650 705 930 1,005 1,125 1,020 885 840 1,080	Marks. 1,800 2,100 750 { 1,200 1,050 1,050 1,200 1,350 1,200 990 990 1,350	Min.  Marks. 1,500 1,500 660 990 810 810 900 1,050 990 780 690 1,050 1,050 1,050	1, 050 1, 095 1, 095 1, 095 1, 095 1, 200 1, 095 885 840 1, 200
First class.  Station watchman.  Track man.  Signal man.  Switchman:  First class.  Second class.  Porter.  Night-watchman  Fireman.  Conductor.  Baggage-man.  Guard.  Brakeman.  Train-hand (Wagonmeister)  Baggage-master.  Weigher  Crane hand.  Ticket stamper.	Marks. 1, 650 1, 950 1750  †1, 050 †1, 050 1, 200 †1, 200 †1, 200 †1, 320 †1, 320 †1, 320 1, 050 1, 200	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780 690 990 990 840	930 930 1, 650 705 930 1, 005 1, 125 1, 020 885 840 1, 080 1, 155 930 1, 020	Marks. 1, 800 2, 100 750 { 1, 200 1, 050 600 1, 200 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350	Min.  Marks. 1,500 1,500 660  990 810 810 900 1,050 1,050 1,050 1,050 1,050	#ge.  #arks. 1, 650 1, 800 705 1, 095 930 930 1, 095 885 840 1, 200 1, 200 1, 200 1, 200
First class.  Station watchman  Track man Signal man Switchman: First class. Second class Porter Night-watchman Fireman. Conductor. Baggage-man Guard. Brakeman Train-hand (Wagonmeister) Baggage-master Weigher Crane hand Ticket stamper Telegraph watchman	Marks. 1, 650 1, 950 1, 950 1750  11, 050 1, 200 11, 200 11, 320 11, 320 11, 320 1, 500 1, 500	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780 690 990 990 840 1, 200	930 930 930 930 1,055 1,125 1,020 885 840 1,080 1,155 1,155 930 1,020 1,350	Marks. 1, 800 2, 100 750 { 1, 200 1, 050 1, 060 0, 200 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 875	Min.  Marks. 1,500 1,500 660 990 810 810 1,050 990 780 690 1,050 1,050 1,050 1,425	*ge
First class.  Station watchman  Track man Signal man Switchman: First class. Second class Porter. Night-watchman Fireman. Conductor. Baggage-man. Guard. Brakeman Train-hand (Wagonmeister) Baggage-master Weigher Crane hand. Ticket stamper Telegraph watchman Telegrapher	Marks. 1, 650 1, 950 1, 950 1750  11, 050 1, 200 11, 200 11, 320 11, 320 11, 320 11, 320 11, 350 11, 350	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 990 990 990 990 1, 200 1, 200 1, 050	930 930 930 930 1,050 1,020 1,020 885 840 1,080 1,155 1,155 930 1,020 1,350 1,200	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050	Min.  Marks. 1,500 1,500 660  990 810 810 1,050 990 780 690 1,050 1,050 1,050 1,050 1,425 1,050	*ge
First class.  Station watchman.  Track man Signal man Switchman: First class. Second class. Porter. Night-watchman Fireman. Conductor. Baggage-man Guard Brakeman Train-hand (Wagonmeister) Baggage-master. Weigher Crane hand Ticket stamper Telegraph watchman Telegrapher Warehouse keeper	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050 1, 200 †1, 200 †1, 320 †1, 320 †1, 320 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 350 1, 200	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780 690 990 990 840 1, 200	930 930 930 930 1,055 1,125 1,020 885 840 1,080 1,155 1,155 930 1,020 1,350	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050 600 1, 200 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350 1, 350	Min.  Marks. 1,500 1,500 660 990 810 810 1,050 990 780 690 1,050 1,050 1,050 1,425	*ge
First class.  Station watchman  Track man Signal man Switchman: First class. Second class Porter Night-watchman Fireman. Conductor. Baggage-man Guard. Brakeman Train-hand (Wagonmeister) Baggage-master Weigher Crane hand Ticket stamper Telegraph watchman Telegrapher	Marks. 1, 650 1, 950 †750  †1, 050 †1, 050 1, 200 †1, 200 †1, 320 †1, 320 †1, 320 1, 500 1, 500 1, 500 1, 500 1, 500 1, 500 1, 350 1, 200	Min.  Marks. 1, 340 1, 350 660  810 810 1, 050 990 780 690 990 990 1, 200 1, 200 1, 050 840	930 930 930 930 900 1,005 1,125 1,020 885 840 1,080 1,155 1,155 930 1,020 1,350 1,200 1,200 1,020	Marks. 1, 800 2, 100 750 { 1, 200 { 1, 050	Min.  Marks. 1,500 1,500 660 990 810 810 1,050 780 690 1,050 1,050 1,050 1,050 1,050 900 1,425 1,050 900	#ge.  Marks. 1, 650 1, 800 705 1, 095 930 930 1, 095 1, 200 1, 200 1, 200 1, 200 1, 200 1, 225 1, 650 1, 275 1, 125

Salaries of Prussian railway employés in 1850, 1860, 1872, 1886—Continued.

	1872.			1886.			
Employés.	Max.	Min.	Aver-	Max.	Min.	Aver-	
Second class.					-		
Station agent:	Marks.	Marks.	Marks.	Marks.	Marks.	Marks.	
First class	3,000	1, 950	2, 475	3, 200	2, 100	2, 650	
Second class	3,000						
A seletant at station	1, 950	1,650	1,800	2, 100	1,800	1, 950	
Assistant at station	1, 350	1, 350	1, 500	1,800	1,500	1, 650	
Telegraph superintendent	3,600	2,700	8, 150	3, 600	2,700	8, 150	
Locomotive engineer		1, 200	1, 425	1, 800	1, 200	1, 500	
Shop superintendent	i .	1 -	1 '	\$ 3, 200	2, 10C	2, 650	
Foreman	2, 400	1,950	2, 175	2, 400	1,950	2, 175	
Draughtsman			ł				
	1, 950	1,050	1,500	<b>§ 1, 950</b>	1,500	1, 725	
Clerk	_,,	,	, ,,,,,,	<b>{ 1, 950</b>	1, 200	1, 575	
Supply agent:		i					
First class.		1, 950	2, 325	3, 000	2, 100	2, 550	
Second class	1, 950	1, 350	1,650	2, 100	1, 350	1, 725	
Cashier at station	2, 550	1, 500	2, 025	3, 200	2, 400	2, 800	
Cashier's clerk	2, 550	1, 350	1, 650	0, 200	2, 200	7,000	
				0 550	1 000	0 100	
Ticket seller	1, 950	1, 500	2, 025	2, 550	1,800	2, 175	
Merchandise forwarder	2, 550	1,500	2, 025	<b>2, 550</b>	1, 800	2, 175	
Baggage forwarder	1, 650	1,050	1, 850		1		
Maintenance secretary	3, 300	1, 800	2, 550	3,600	2, 100	2, 850	
Operating accretary	2, 100	1, 350	1,728	2, 400	1, 350	1, 875	
Clerks, etc in general office	3, 300	1, 800	2, 550		2,000		
Average			1, 994			2, 199	
Third class.					====		
Operating superintendent	4, 800	3, 600	4, 200	4, 800	8, 600	4, 200	
Traffic superintendent				4, 800	3,600	4, 200	
Building superintendent	3, 000	2, 400	2, 700	4, 800	3, 600	4, 200	
Machinery superintendent				4 800	3, 600	4, 200	
maduludiy suputululudub	4, 200	2, 400	3, 300	<b>3,000</b>	3,000	2, 200	
Head of main office		••••	••••			· • • • • • • •	
Supply manager (‡)	4, 500	3, 600	4, 050				
Inspectors	3, <b>60</b> 0	2, 250	2, 925	3, 600	2, 250	2, 925	
General paymaster	4, 500	3, 600	4, 050	4, 800			
Operating paymaster			_, _,	4, 000	3, 200	3, 600	
				(3, 600	2, 100	2, 850	
Book-keeper	3, 300	1, 800	2, 550			4,000	
Head cashier				<b>{ 3, 600</b>	2, 100	2, 850	
Average	• • • • • •	••••	8, 397			<b>8, 659</b>	

<sup>\*</sup>Uniform in addition.

Prices of land, and especially of agricultural land, would be of great interest for the discussion of changes in the purchasing power of money. It would not be difficult to get any number of single statements on this subject, from which, however, no general conclusions could be drawn. It is exceedingly difficult to get tables, even for small districts, which can be use with any confidence as indicating, even approximately, changes in the value of land. In general it is well known that the price of landed estates rose greatly in the sixties and in the early part of the seventies, and it is known that this rise in price has not continued since. But how great was the change in the general level of prices is indicated by no trustworthy statistics; and we are not able to fill this gap. the absence of better information we venture to present a few statements of the rents paid in former times and at present for certain domains\* of Prussia. As these domains are generally leased for long periods, as a rule for eighteen years, their rents are likely to run parallel with the selling prices of private estates of a similar kind, and indicate

<sup>†</sup> Uniform not included.

<sup>!</sup> This office has been abolished; those formerly holding it are now maintenance secretaries.

<sup>\*</sup>Strictly: Domänen-Vorwerke.

pretty closely what was the movement in the prices of the latter. It is true that on the renewal of some of the leases, whose totals we present, new conditions were inserted; but changes of this kind were made, on the whole, to no great extent and may fairly be disregarded. In some countries, in former times, personal considerations had an effect on the leases, but this was not the case in Prussia. The domains yielded as follows in the budgets of the years mentioned:

Years.	Area.	Per hectare.	Total.
In the old provinces: 1850	Heclares. 318, 228	Marks. 14. 10	Marks. 4, 486, 947
1860	295, 155	17. 55	5, 179, 209
1870	296, 580 290, 476	26. 46 34. 61	7, 847, 205 10, 054, 714
1884–'85.	288, 731	37. 85	10, 927, 170
1886–'87	287, 889	38. 25	11, 010, 410
In newly-acquired districts: 1870	51, 949	39. 60	2, 057, 000
1880–'81	53, 214	47. 78	2, 542, 533
1884–'85. 1886–'87	50, 847 50, 708	52, 45 52, 85	2, 666, 854 2, 6e0, 155
1000- 01	JV, 106	02. 60	2, 000, 100

It appears that in the old provinces rents rose between 1850 and 1886-'87 from 14.10 marks per hectare to 38.25 marks per hectare; that is, 171 per cent. In newly-acquired districts rents rose between 1870 and 1886-'87 from 39.60 marks to 52.85 marks, or 33 per cent. The net yield of the land tax on all the domain lands was, in the budget of 1884-'85, 7,658,401 marks (on 339,578 hectares cultivable ground), while the rents yielded 13,735,677 marks, or 40.45 marks per hectare.

The leases of domains of which earlier leases were thrown up between 1874 and 1875 yielded the following results:

Year.	Number of estates.	Surface.	Former rent per hectare.	New rent per hectare.	Increase in rent per hectare.
1874	38 58 46 58 48 49	Hectares. 15, 130 18, 357 16, 981 20, 430 20, 747 27, 827	Marks. 28. 34 81. 07 31. 48 29. 99 26. 00 28. 71	Marks. 43. 29 43. 15 48. 83 51. 99 34. 85 36. 96	Marks. 14. 95 12. 08 17. 35 22. 00 8. 85 8. 25
1880 1881	35 43 42 69 39 43	27, 827 18, 723 20, 211 16, 602 26, 097 14, 092 *18, 873 †18, 690	31. 49 88. 17 37. 86 85. 20 86. 15	33. 93 41. 99 39. 54 51. 58 46. 69 45. 34	2. 44 3. 82 1. 68 16. 88 10. 54

<sup>\*</sup> Formerly.

t At present.

The following statement of the changes in the rents of certain dwelling houses at Hamburg during the last thirty-five years will be of interest. They do not indicate, of course, changes in rents in general; but they are worth noting, because they rest upon detailed inquiries made year for year, and refer to dwellings in which no changes of importance were made during the whole period.

#### Estimated house rents (including rents when racant).

Years.		uses with rents.	Ten houses with low rents.		
·	Rent.	Increase.	Rent.	Increase.	
1850	Marke. 83, 955	Per cent. 100. 0	Marks. 55, 7 <b>6</b> 2	Per cent. 100.0	
1855 1860 1865	38, 374 49, 104	113. 0 144. 6	55, 822 59, 268	100. 1 106. 3	
1870	51, 520 57, 635 64, 071	151. 7 169. 7 188. 7	63, 858 75, 119 97, 260	114.5 134.7 174.4	
1875 1880 1885	72, 178 73, 131	212. 6 215. 4	109, 242 116, 242	195 9 208. 5	
1886*	72, 817	214. 5	111, 474	211.9	

<sup>\*</sup>The total in 1886 for the cheaper houses could be given fairly for only nine out of the ten, the tenth having been entirely rebuilt. In the figure indicating the per cent. of increase, allowance has been made for this.

We have at hand detailed calculations of the living expenses of two families in Brunswick, each consisting of six persons. One was the family of a workingman in fairly good circumstances; the other that of a government official not highly placed. The expenses are the general current expenses, including rents, fuel, and clothing, but not including outlays for education, medical attendance, amusements, or taxes. An exact detailed account is not given, but only an approximate statement, which, however, has the advantage of having been prepared without any bias or any social prejudice, and on the same method for the same place since the year 1850. (See "Betheiligung am Gewinn und National-Versorgung," by Dr. H. Scheffler, Brunswick, 1876. We have also later communications from the author.)

Years.	  Workman	a's family.	Government offi- cial's family.	
1850	Marks. 794. 40 1, 203. 30 1, 395. 90 1, 359. 80	Per cent. 100 151 176 171	Marks. 1, 120. 50 1, 905. 60 2, 181. 30 2, 341. 24	Per cent. 100 170 195 209

In regard to retail prices for the same years we are able to give, again on Dr. Scheffler's authority, the following statements:

	1850.	1870.	1875.	1885.
	Marks.	Marks.	Marks.	Marks.
Beef:	}			
Smallpound	.j .30	. 50	. 55	. 50
Largedo		. 60	. 65	. 60 to . 65
Veal:				
Smalldo	. 25	. 40	. 50 to . 60	. 45
Largedo		.70	.70 to .75	
Porkdo		.60	.65 to .70	. 60 to . 70
Butterdo	. 50 to . 60	1.00 to 1.40	1. 15 to 1. 50	. 95 to 1. 50
Flourcwt.		20.00	16.00	15.00
Rye meal	6,00	12.00	11 to 12	12.00
Eggs per shock (60)		3. 00	3. 50 to 4. 50	3. 90 to 4. 00
Milk per quart.		.14	. 16	. 10
House-maid's yearly pay	36 to 48	72 to 90	90 to 150	
Washerwoman per day	1.00	1. 25 to 1. 50	1.50	1. 75 to 2. 00
Seamstressdo		1. 20 to 1. 50	1.50	1.50 to 2.00
Inskilled laborer		1.50	2. 25 to 2. 50	1.75 to 2.00
Masondo			3, 50	3. 20 to 3. 50
Carpenterdo		2. 50	3. 50	8. 20 to 3. 50
Cwo-horse carriagedo		13	18	24

In England several attempts have been made to ascertain the changes in the general purchasing power of money, by referring to the average costs of supporting persons in the same manner in large institutions. As we shall deal in the present publication chiefly with prices at Hamburg, we insert statements of the average cost of support at a large institution at Hamburg, the General Hospital. We have to deal here with the support of about 700 persons per day, or 620,000 per year, and with a careful and economical administration, in which everything is bought on a large scale. In this institution the cost of board per person (patients and employés included) has been as follows since 1841:

Year.	Per day.	Per year.	Per cent.
•	Pfennigs.	Marks.	
1841-'50		134. 99	100. (
1851-'60	42.9	156. 60	116. (
1861-'70	52.2	190, 59	141.
1871-'75.:		276, 76	205.
1876–'80		325. 34	241.
1881		327. 44	242.
1882		319. 16	236.
1883		314. 48	233.
		295. 29	218.
		273. <b>68</b>	202.
1885		306. 01	202. 226

It appears that the cost of board rose between the decade 1841-'50 and the year 1881 by more than 145 per cent. Since 1881 there has been a fall, though not a considerable one. Until 1870 the rise in price was a moderate one; thereafter it was rapid and great. A considerable part of the increase in expense is shown by the accounts to have arisen from the much higher prices of meat, milk, butter, etc. But this does not suffice to explain the extraordinary increase in expenses, which must be ascribed in part to the fact that the board has become better and more liberal since 1870. Yet, even if due allowance is made for this circumstance, the fact of a noteworthy increase in the rise of board from 1871 to 1883 is not to be denied.

The statements in the preceding paragraphs of the changes that have taken place in the cost of living, in wages, in salaries, etc., by no means pretend to give an exhaustive treatment of these matters. They are meant only to make clear that the statistics of the prices of commodities alone are by no means decisive of the question of a change in the purchasing power of gold. But they show clearly that the gradual changes in the standard of living of different classes have a great effect on the value of money, and perhaps deserve more attention than the wholesale prices of commodities. Yet we should not have a measure of changes of this kind, even if we had a series of statements showing the expenses of living for different families of the same position in life and of the same numbers, and even if we could make comparisons of such cases; for the money expenses of different classes for these purposes are not likely to increase or diminish in the same degree at different places and different times. One family perhaps spends 50 per cent. more than was spent by a family in essentially the same circumstances thirty or forty years ago, and is not conscious of incurring any Another family perhaps expends but 30 per unnecessary expense. cent. more; and there may be innumerable variations. How can we get a trustworthy average under such circumstances? Whatever method be adopted, notwithstanding the most complete statements

and the greatest care, it is impossible to get an expression in figures of the changes in the purchasing power of money. Yet it can not be doubted that the increase in the standard of living in almost every class in civilized countries has brought about a rise in money payments for personal services of every kind, and that this increase has taken place even in times when the wholesale prices of important commodities were failing.

An important circumstance, serving to explain the fall in wholesale prices while the cost of living was rising, or at least remained unchanged, is the cost of distribution; that is, the addition to prices in the course of jobbing and retail trade, which goes far to offset for consumers the cheapening of production.

A natural consequence of the state of things sketched in the last few pages is that the continued and considerable fall in the prices of commodities generally bears hard on men of business and on invested capital, and not on the workmen. Every one can observe this effect for himself, yet its eminent importance makes it worth while to present an unusually clear confirmation of the rule, brought out by a statistical compilation as complete and instructive as could be imagined.

The Belgian minister, Primez, published in September, 1884, a work entitled La Crise; Examen de la Situation Économique de la Belgique (Brussels), at the close of which there is a table giving exact statements, compiled in the same manner year after year for the twenty-four years from 1860 to 1883, in regard to the production of coal in the province of Hennegau. Between 60,000 and 83,000 workmen are employed, and as many as 13,500,000 tons of coal are annually produced. Lack of space prevents us from giving the results for each year, and we must content ourselves with average statements for the three periods, 1860–71, 1872–76, 1877–83. Letters which the author has been kind enough to send, enable us to present also the figures for the years 1884 and 1885.

Production of coal in Hainaut, 1860-'85.

					Cost, p	er 1,000 kilo	grams.
Years.	Production.	Expenses.	Value.	Profit.	Labor.	Other expenses.	Total.
1860-'71	11, 100, 000	9, 000, 000   91, 000, 000 11, 100, 000   158, 000, 000 12, 000, 000   120, 000, 000 13, 500, 000   115, 500, 000		France. 10, 200, 000 24, 400, 000 1, 900, 000 4, 700, 000 5, 500, 000	Francs. 5. 72 8. 34 5. 67 5. 32 4. 74	Francs. 4. 49 5. 91 4. 36 3. 93 3. 71	Francs. 10. 21 14. 24 10. 03 9. 25 8. 45
Years.		Selling price, per 1,000 kilograms.	Profit, per 1,000 kilograms.	Salaries.	Number of workmen.	Average salary per workman.	Proportion of labor in general production, less other expenses.
1860–'71 1872–'76 1877–'83 1884			Francs. 1. 12 2. 12 2. 15 . 41 . 39	Francs. 52, 000, 000 95, 000, 000 71, 000, 000 71, 900, 000 61, 200, 000	65, 000 79, 000 76, 000 78, 800 76, 900	Francs. 797 1, 173 897 911 796	Per 100. 83 82 97 94

The figures of this table speak so plainly that there is hardly occasion to comment on them. The statements for single years bring out even

more clearly the remarkable changes resulting from the excessive rise of prices in the speculative period, 1871–74, and from the low prices of recent years; yet the averages of longer periods are more significant of the actual course of events. If we compare the year 1885 with the decade 1860–71, we find that the price of coal fell from 11.33 to 8.88 francs per 1,000 kilograms; that the profit sank from 1.12 francs to 0.39 francs per 1,000 kilograms; that wages, notwithstanding the reduction which became necessary in 1885, remained at the same point as in 1860–71. Meanwhile the profits, inclusive of interest on capital, sank from 10,200,000 to 5,500,000 francs; and averaged during the years 1877–83 only 1,900,000 francs. The share of labor in the total product, after deducting other expenses, was 83 per cent. in 1861–70 and 92 per cent. in 1885. The depression of trade, whether the result of scarcity of gold, of overproduction, or of other causes, bears incomparably harder on capital and the business man than on wages and the workman.

We now leave the question of changes in the value of money in its relation to expenses of living, wages, etc., and come to an end with the digression which its discussion caused us to make into the closely related field of the social question. We turn to investigations of the prices of commodities. As we have seen, general prices are still treated in some quarters under the influence of the so-called *Quantitäts-Theorie*, while in other quarters it is considered quite independently of that theory. It is not within the scope of the present publication to express an opinion as to the soundness of one or the other of these views. Our task is simply to present impartially the different views, and the materials for

understanding them.

In what has preceded and in what will follow we use the words "money" and "gold" indiscriminately. This does not really cause any uncertainty of meaning, since gold is directly or indirectly the sole measure of value in the wholesale trade of all commercial countries, even though the medium of exchange may consist of silver coins, and

accounts may be kept in them.\*

It has already been pointed out that both in domestic and in international transactions actual gold is little used, in comparison to the use of credit and bank clearings. But we should not fail to take account of the repeated and emphatic assertions that this substitute for gold is available only in ordinary times. In case of a future general crisis or shock to credit, we are told it would be impossible to conceive the intense demand for actual gold which would set in, and the downward pressure which would be exerted on prices. But it has also been pointed out that when such a catastrophe sets in, it makes little difference whether silver is a legal tender in addition to gold. At such times one must be prepared not only for a demand for the payment of bank notes, but for the payment of all debts payable on demand by banks. The total deposits alone in the ten London joint-stock banks amounted at the close of 1883 to £123,267,000, while these banks hold in their own vaults and in the Bank of England only £15,911,000 in cash. The total de-

<sup>&</sup>quot;There is no denying the fact that monetary systems may be called bi-metallic, or single silver; but the income of all nations within European control or influence, all wages, all manufactures, all the world's produce, come at last to be measured in value solely and inexorably against gold, and, infinitely more than all coins, against the unit of the one-pound sterling. " " " The relative value of all of the metals tends constantly to become the same at any given time in all commercial markets, without reference to which may be the legal standard in each particular market, so that, for example, the price of silver purchased with gold can never vary more than a minute fraction in Calcutta from the simultaneous price in London."

posits and accounts-current of the banks of the United Kingdom reached on the 1st of July, 1885, the colossal sum of between £570,000,000 and £580,000,000, whereas the Bank of England held only £27,481,488 of gold. Even if the metallic reserve of the Bank of England were to be doubled, or more than doubled, it would still be very small in comparison to the demand obligations in the United Kingdom which would all be thrown on the Bank of England. In crises of this kind, which fortunately are likely in the future to occur less frequently and to pass by more quickly, the only resource after all would be paper money inconvertible for the time being. It would be immaterial whether there were

a gold standard, a double standard, or a silver standard.

Changes in general prices whose cause does not lie in the cost of production of commodities, or in the conditions of their supply and demand, but which are the result of a cause affecting the medium of exchange, as in the case of an excessive issue of inconvertible paper money, must affect in the long run all articles alike. It is immaterial whether the articles are sold in large or small quantities. Those changes in prices, however, which are caused by variations in the cost of production of commodities, must show great differences; and it is only when taken as a whole that they will show such an effect that we shall be able to judge whether there has been a change in the purchasing power of money. In the nature of the case, it is impossible to find a method by which we shall be able to infer, with exactness, from a specified number of commodities, changes in the general level of prices. Nothing more than approximate estimates can be secured.

The late Professor Jevous first proposed, in 1863, the following method: He began by calculating from quarterly prices the average prices of a series of important articles during the six years, 1845–'50. He assumed each average price to be 100, and on this basis made a percentage comparison of the prices of the same articles on the 1st of January or 1st of July of each year following. Mr. Newmarch, and the publishers of the London Economist, have continued these quotations and calculations of forty-seven articles up to the present time. The prices of a number of similar articles have been grouped together in making the percentage calculation, so that at the end twenty-two articles are left, for whose prices the so-called index numbers are calculated for comparison with the prices in 1845–'50. Adding up these twenty-two index numbers, and taking 2,200 as the basis for 1845–'50, we get the total index number, which serves to indicate yearly changes in the level of prices.

The articles included in the Economist list are: Coffee, sugar, rum, tea, tobacco, butter, wheat, potatoes, beef, mutton, pork, silk, flax, linen yarn, hemp, wool, logwood, indigo, sperm-oil, petroleum, timber, tallow, leather, saltpeter, potash, copper, iron, lead, steel, tin, coal, raw cotton, cotton yarn, cotton goods.

The authors of these index numbers did not fail to see the objections to their method, by which the simple addition of the comparative prices of articles of very unequal importance was made to measure changes in the general level of prices. The tables of index numbers in the Economist are regularly prefaced by the following note:

The total index number does not, of course, present a full and accurate representation of the variations in prices, inasmuch as it can not allow for the relative importance of the different articles. Wheat, for example, reckons for no more in the total index number than indigo; and during the years of the high price of cotton and cotton fabrics, the total index number is in a measure unduly raised by that special cause. Still the total index number, read with the needful qualification, may afford important inferences.

Mr. Hans Forsell, some time minister of finance in Sweden, differs from this judgment in his recently published work entitled, Guldbristen och de laga Varuprisen (Stockholm, 1886). On the contrary, he condemns emphatically the method of total index numbers, and all conclusions drawn from them, because they fail to take account of the relative importance of commodities. By adding or omitting a few important articles of commerce, the total index number might be made to rise or to fall according to the wishes of the compiler. The total index numbers, therefore, prove nothing whatever. Mr. Forsell thinks the extraordinary fluctuations in the prices of many articles can be explained from separate causes, which have no connection whatever with the purchasing power of gold.

Mr. Palgrave has endeavored to free the total index numbers, to which much weight is attached in England, from the objection that they fail to consider the relative importance of commodities, and has caused Mr. Nash to prepare for his Memorandum, already referred to, a new calculation of index numbers for the 22 articles of the Economist list. For the new index numbers the basis (100) is not taken for the years 1845-'50, but for the years 1865-'69. Mr. Nash illustrates the great importance of considering the relative importance of commodities by the example of wheat and indigo, which has been already alluded to. The value of the net import of indigo into England in 1885 was in round numbers £600,000. The value of the imported wheat and flour, plus that of the domestic production of wheat, was £49,350,000. Wheat, therefore, was an article eighty-two times as important as indigo, and a rise or fall of only 1 per cent. in the price of wheat, therefore, should have in a properly constructed table of index numbers the same importance as the rise or fall of 82 per cent. in the price of indigo.

Mr. Nash calculates for the years 1865–1885 the value of the quantity annually consumed of each of the 22 articles in the United Kingdom, and assigns a figure indicating its relative importance to each commodity. The results of this method will appear sufficiently from the following table for the years 1865, 1875, 1885:

	186	5.		18	75.		<b>18</b> 85.			
Artioles.	Consumption.	Index number.		Consumption.	Index number.		Consump- tion.		Index number.	
Cotton	£47, 000, 000 6, 300, 000 9, 900, 000 18, 400, 000 44, 300, 000	428 57 90 168 405	( 19. 5) ( 2. 6) ( 4. 1) ( 7. 6) ( 18. 4)	£39, 700, 000 2, 100, 000 7, 450, 000 21, 300, 000 53, 500, 000	17 58 167		1, 5, 17,	600, 000 400, 000 900, 000 100, 000 000, 000	12 49 142	( 12. 0 ( 0. 5 ( 2. 2 ( 6. 5 ( 28. 8
Iron Copper Lead Zinc	12, 000, 000 4, 800, 000 2, 100, 000 1, 300, 000	109 44 19 12	( 5. 0) ( 2. 0) ( 0. 9) ( 0. 5)	16, 200, 000 4, 650, 000 8, 100, 000 2, 000, 000	87 24 16	( 5.8) ( 1.7) ( 1.1) ( 0.7)	18, 4, 1,	000, 000 680, 000 550, 000 800, 000	150 89 13 15	( 6.8 ( 1.8 ( 0.6 ( 0.7
Timber	17, 800, 000' 5, 100, 000 5, 600, 000 200, 000	160 47 51 2	( 7. 3) ( 2. 1) ( 2. 3) ( 0. 1)	20, 000, 000 3, 950, 000 8, 800, 000 800, 000	,81 69	( 7. 1) ( 1. 4) ( 8. 1) ( 0. 1)	3,	650, 000 340, 000 600, 000 600, 000	28 80	( 7.5 ( 1.3 ( 8.6 ( 0.2
Oils Coffee Sugar Tea	5, 500, 000 > 1, 400, 000 11, 000, 000 7, 300, 000		( 2. 3) ( 0. 6) ( 4. 5) ( 3. 0)	4, 900, 000 1, 500, 000 21, 000, 000 11, 100, 000	38 12 165	( 1.7) ( 0.6)	17,	900, 000 930, 000 920, 000 500, 000	49 8 149	( 2. 2 ( 0. 4 ( 6. 8 ( 3. 2
Tobacco	2, 600, 000 39, 000, 000	24 855	(1.1)	2, 500, 000 54, 300, 000	20	( 0. 9) ( 19. 4)	3,	500, 000 500, 000 350, 000	29	( 1.8
Total	241, 600, 000	2, 200	<b>(100.</b> 0) <sub>,</sub>	280, 350, 000	2, 200	(100.0)	264,	<b>320, 000</b>	2, 200	(100. 0

This Memorandum, moreover, contains a similar calculation of the changes in the prices of twenty-two articles in France, as reported in the French trade statistics. The relative importance of commodities is

taken into account, and the prices ascertained by the Commission Permanente des Valeurs are used. The articles selected are coffee, sugar, cereals, beef cattle, butter, rice, tobacco, linseed, palm-oil, tallow, silk, cotton, wool, hides, coal, iron, steel, copper, lead, zinc, and the following articles of export, silk goods, woolen goods, and gloves. It is true that only important articles are on this list, but the enormous difference in their relative importance is easily seen. For instance, for the year 1883 cereals are reckoned at 375,000,000 francs, wool at 318,000,000 francs, while zinc is put at 13,600,000 francs, and imported iron and steel at 27,100,000 francs. The quantity of each commodity produced at home is left entirely out of account. The years 1865—'69 were again used as the basis for this French calculation. The reason was that no figures for the period before 1869 exist for prices in India, with which a comparison was sought.

We now present the total index numbers of the level of general prices

as ascertained by the various methods just described:

Years.	Total inde bers of Eco without i to relativ portance of moditi	nomist, regard ve im- of com-	berso with relate	f Eco h reg tive i	nomist, ard to impor-	Total index numbers of French prices, with regard to relative importance of commodities.		
1865			2, 2, 2,	366 434 179 058 963		2, 331 2, 380 2, 144 2, 110 2, 015		
1865-'69	2, 200	(100)	2,	200	(100)	2, 200	(100)	
1870	1, 981 2, 182 2, 237 2, 207 2, 098 2, 044 2, 064 1, 910	91 90 97 102 100 95 93 94 87 76 87	2, 2, 2, 2, 2, 2, 2, 1,	975 046 197 298 378 125 186 205 081 805 967	90 93 100 104 108 97 99 100 95 82	2,000 2,250 2,310 2,300 2,125 2,085 2,090 2,107 2,010 1,915 1,937	91 102 105 105 97 93 95 96 91 87	
1881. 1882. 1883. 1884. 1885.	1, 830 1, 755 1, 660	81 83 80 75 70	1, 1, 1,	054 908 924 750 669	93 87 88 80 76	1, 900 1, 855 1, 756	86 84 80	

If we compare these tables, we are surprised to find that the index numbers reached by the different methods do not vary greatly from each other. The great fall in prices in the decade just passed comes out with equal clearness in all of them. We do not believe, however, that this agreement disposes of all criticism of the tables. These attempts to secure some degree of confidence in the approximate correctness of the index numbers, as modified by the consideration of the relative weight of commodities, are yet open to serious objections. Above all, it is said that the consideration of no more than twenty-two articles, however carefully they may have been selected, neglects a number of very important articles whose prices are of great importance when we try to determine the purchasing power of gold. Not less well founded is the objection that a great rise or fall in the price of a few important articles on the list, although caused by speculation and of only temporary duration, may exercise a great effect on the index number arrived at. For

the French figures, a closer examination shows that the relative weight of the twenty-two commodities has been assigned in a careless and misleading manner.

Our wish to secure room for a detailed presentation of the true average prices of one hundred important commodities in Hamburg in the years from 1847 to 1885, and the objections against the Economst's figures and other figures meant to indicate the general level of prices, induce us to omit in this edition of the Materials the detailed presentation of the Economist's tables, and to content ourselves with the summary tables given above.

We can not omit, however, from these Materials, in the present stage of the silver question, a statement of prices in India since the beginning of the depreciation of silver. But we are compelled to condense it. It is derived from the communications made by the India office to Mr. Palgrave and published by him in his Memorandum. The prices for ordinary rice and for wheat are the average prices of six places. Those of other articles are prices at the places of export. The prices of cotton is that of fair Dhollera at Bombay.

	Rice of	rdinary.	Wh	eat.	Cot	ton.	Castor-oil.		
Years.	Seers per rupes.	Index number.	Seers per rupee.	Index number.	Rupees per candy.	Index number.	Rupees per maund.	Index number.	
1865-'69	16. 63	100.00	15. 56	100. 00	263	100.00	11. 61	100.00	
1870'	19. 61	84.80	15. 70	99, 23	244	92, 77	11.87	102. 23	
1871 1872	20. 99	72. 22	<b>22</b> . 12	70.43	209	79.46	11.56	99. 50	
1872	23. 76	69. 99	19. 97	78 01	245	93. 15	13. 00	111.9	
l87 <b>3</b> i	20. 85	79. 76	18. 98	<b>82. 0</b> 8	203	77. 18	12.40	106. 8	
874	14. 53	114.45	18. 79	82. 96	159	60. 45	11. 81	101. 7	
875	17. 59	94. 54	23. 13	67. 35	167	63, 50	9. 26	79. 7	
876	15. <b>6</b> 0	106.60	24. 42	<b>63</b> . 8J	178	67. 68	<b>Q. 81</b>	84. 4	
877	15. 63	106, 89	18. 91	82. 39	192	73. 00	13. <b>56</b>	118.7	
878	11. 92	139. 51	13. 42	116.09	195	74. 14	14. 93	128. 5	
879	12. 52	132. 82	14. 67	106. 20	224	85. 17	12. 87	110. 8	
880088	17. 12	97. 13	16. 39	95. 05	203	77. 18	10. 75	92. 5	
881	<b>22</b> . <b>28</b>	74. 64	18. 57	83. 89	188	71. 48	10. 18	87. 6	
882	22. 67	73. 85	18. 87	82. 56	181	68, 82	10. 01	86. 2	
883	18. 05	92. 13	18, 96	82. 17	174	66, 16	10. 78	92. 8	
884	14.70		21. 36	72. 93	195	74.14	10. 50	90. 4	
980- <b>'84</b>	18. 96	90. 07	18. 83	83. 32	188	71. 48	10. 44	89. 9	

	Lins	eed.	Ju	ite.	Hic	des.	Fall in price of	
Years.	Rupees per maund.	Index number.	Rupees per bale.	Index number.	Rupees per corge.	Index number.	silver (com pared to gold).	
1865–'69	4. 63	100, 00	19. 26	100.00	49. 25	100.00	1, 000. 00	
1870	4. 30	92. 87	<b>26. 25</b>	136. 25	56. 50	114.72	965. 08	
1871	<b>4. 4</b> 0	<b>95</b> . 03	24.87	129. 12	64. 00	129.94	992. 10	
1872	4. 76	102.78	21. 32	110.69	<b>61.</b> 75	<b>125. 38</b>	976. 14	
1873	4. 94	106, 69	19. 87	103.16	77. 25	156. 85	<b>9</b> 58, 85	
1874	4. 75	102. 59	22. 87	118.74	81. 75	<b>165. 98</b>	<b>9</b> 50. <b>49</b>	
1875	4.04	87. 25	19. 50	101. 24	71. 25	144. 67	927. 71	
1876	4. 16	<b>89</b> . 84	22. 25	115. 52	<b>7</b> 0. <b>50</b>	143. 14	<b>879. 79</b>	
1877	4. 60	<b>99</b> . 35	26. 12	185. 61	<b>6</b> 0. 00	121. 82	<b>89</b> 1. <b>90</b>	
1878	4. 92	106. 26	27. 25	141. 53	64.00	129. 94	<b>849.</b> 16	
1879	5. 09	110.41	27. 50	142. 78	71.00	144. 16	<b>856. 33</b>	
1880	4. 59	<b>99</b> . 13	<b>28</b> . 25	146. 67	78. 00	158. 87	856. 11	
1881	4. 23	91. 86	26.00	135. 00	<b>69</b> . 50	141. 11	853. 49	
1882	3. 76	81. 20	19. 03	98. 80	66. 00	134. 01	837. 61	
1883		88. 12	23.75	123. 81	80. 00	162. 48	888. 09	
1884	4. 20		20. 50	106. 43	79. 50	161. 42	<b>82</b> 8. 31	
1889-'84	4. 17	90.06	23. 51	122.06	74. 60	161. 45	842.72	

Mr. Barbour, Secretary of Finance to the Indian Government, has given his attention, in the work already referred to (The Theory of Bimetallism, 1886), to the movement of prices in India under the influence of the depreciation of silver. His investigations indicate that from 1873 to 1884 there was a slight temporary rise in the prices of articles of export in Calcutta, but that in 1885 a distinct fall set in. The silver prices of articles of import had not risen in India in proportion to the lower prices of silver, but, on the contrary, had fallen somewhat. For instance, 100 yards of gray piece goods, which had cost in the year 1874-'75 13 rupees 1 anna, cost in 1884-'85 10 rupees 8 annas. These statements referred to prices at the sea-ports. Whether prices in the interior had risen it was impossible to state exactly, in view of the extraordinary differences in the circumstances of the different parts of that enormous country. But it is certain that the wages of skilled labor, masons, carpenters, blacksmiths, etc., had risen everywhere.

We are indebted to the Hamburg Prices Current for Money, which were issued every Tucsday and Friday, for the complete and exact quotations which enabled us to ascertain month for month and year for year the ratio that existed in free markets between gold and silver during the 144 years from 1687 to 1830. We are similarly indebted to the Official Trade Statistics of Hamburg for material for ascertaining the annual wholesale prices of commodities from 1847-'85—material which is complete and trustworthy to a higher degree than any known

to us.

Throughout this period Hamburg was an important market for almost all raw materials. Moreover, it has been a free port, without duties or differential taxes. Commodities imported are declared in writing, with a statement of their weight and of their ordinary trade designations. Their value is stated separately for each commodity, either according to its price on 'change that day, or, if there were no quotations, according to the probable price, which was to be, in the absence of other data, the purchase price plus the cost of importation. For consigned goods a careful estimate of the prices sufficed, sometimes supplemented with a statement of their insured value. These declarations, which were carefully supervised, were then collected by the Bureau of Trade Statistics, and tables were made out of the quantity and value of goods

exported and imported.

In these tables we find the average prices for each year for a large number of articles (in 1885 for 318 articles), all based on the declarations mentioned. Prices are given not only for each article, but for each article according to the place whence imported. The quantities and kinds of many important articles undergo changes in the course of decades, and it seemed therefore proper to take no account of the different kinds of each article, but to treat all kinds as one, in order to get a general indication of the changes in prices. Some five years ago the bureau of trade statistics at Hamburg prepared, at our request, on the method of index numbers, a "Statement by per cents of the changes in five-year and ten-year periods of the average prices of 100 articles of trade, in the years from 1851-780, compared with the average prices of the years 1847-'50." We published this statement, which has since been frequently cited, in our essay on "The statistics of the previous metals, 1876-780," in the Jahrbücher für National-Oekonomie, new series, vol. iii.

It has been objected to this compilation that the period from 1847-'50 is used as the basis, whereas the decade from 1841-'50 would have been preferable. This may be freely admitted; and had we had a choice,

we should certainly have used the period 1841-'50 rather than that of 1847-'50. But for the period before 1851 we possess statements only for the four years preceding. A change in our initial year was there-

fore impossible.

Other objections to this compilation, however, which are directed against the selection of the articles, are not without foundation. It would lead us too far to discuss them bere in detail. We have carefully gone through the list of articles again, and have excluded those for which the Hamburg wholesale prices are not fairly to be considered indicative of prices in general trade. Some articles now of importance can not be considered at all in this comparison, because they have come into general use since 1850; for instance, petroleum. Another essential change has been made in the compilation, in that a number of very important articles are now included in them for which the official declarations gave no figures. Their wholesale prices since 1877 have been ascertained from the yearly accounts of large institutions at Hamburg. This has been done especially for meat, butter, milk, and eggs. prices of yarns and cloths, which were embraced in the earlier compilation from the Hamburg prices, have now been excluded, since the indirect influence of the German import duties on the importation of cheaper grades prevents the prices from indicating the general range of prices of such articles. In their place we have given corresponding average prices of yarns and cloths exported from England, as well as the prices of some other articles of manufacture, all derived from the British trade statistics.

The first edition of our Materials indicated the average prices not of each year, but of periods of several years, namely, 1851-'60, 1861-'70, 1871-'75, 1876-'80, 1881-'84. The wish has been expressed in several quarters that the tables should be completed by giving the average prices for each year, since such prices would serve to indicate more clearly and accurately the changes in the general level of prices and the movement of the prices of individual articles. We could not but admit that this wish had its justification, the more so as we have become convinced that the twenty-two index numbers of the English publications fulfill their object very insufficiently, and may be replaced with advantage by a more detailed statement of average prices at Hamburg.

The great importance of this statement of average prices lies in the general survey which it gives of the average prices of the most important articles continuously since 1851. Prices can be followed here, year for year, by themselves and in their connection with other prices, and moreover with assurance that they are not based upon estimates, but upon direct trustworthy declarations from men of business. In addition, we present, on the method of total index numbers, percentage calculations of changes in the level of general prices. We believe that these calculations have a good claim to approximate accuracy because of the large number of articles on which they are based; yet we are quite aware that our calculations, like others, must be used with every caution.

The Hamburg Bureau of Statistics, knowing the wide interest and great importance of the calculation of the movement of actual average prices per year of 114 important commodities during the period from 1851 to 1885, wished to present, so far as this could possibly be done, trustworthy figures and calculations. The Bureau, therefore, thought it desirable to submit earlier results, as they had been published in the annual tabular statements of the trade of Hamburg, and had been

printed in our first edition, to a thorough and detailed revision. The result has been that changes proved necessary or desirable only for occasional articles in single years; and such changes as were made, barring a few exceptional cases, were fairly to be considered irrelevant. For the sake of exactness, however, they have been used in this new and final compilation of the Hamburg prices, and will serve to explain variations from the figures of earlier publications.

The prices of various agricultural and animal products are perhaps not to be considered authoritative for wholesale trade in so high a degree as those for other articles. We therefore add a statement of the average prices of certain commodities of this kind in Prussia during the period from 1861 to 1885, obtained from the Zeitschrift d. Kgl. Preuss. Statistischen Bureaus, 1886, Heft I, II, besondere Beilage, p. 80.

[Per 100 kilograms.]

Years.	Wheat.	Rye.	Barley.	Oats.	Pota- toes.	Beef.	Pork.
1861-'65	Marks. 18. 82 22. 02 23. 52 21 14 18. 96 22. 00 20. 80	Marks. 13. 78 17. 16 17. 92 16. 62 16. 00 20. 20 16. 10	Marks. 12. 12 15. 48 17. 08 16. 20 15. 16 16. 60 15. 40	Marks. 11. 83 15. 08 16. 32 15. 24 14. 58 15. 90 14. 60	Marks. 4. 58 4. 96 6. 04 6. 06 5. 26 5. 70 4. 95	Marks. 0. 82 0. 92 1. 15 1. 15 1. 18 1. 14	Marks. 0.98 1.11 1.26 1.24 1.25 1.28
1883	18. 50 17. 30 16. 20	14. 70 14. 70 14. 30	14. 60 14. 90 14. 30	13. 70 14. 40 14. 30	6. 15 4. 90 4. 60	1. 20 1. 20 1. 19	1. 28 1. 20 1. 20

It goes without saying that we do not mean to add comments on the fluctuations or permanent changes in the prices of the different articles during the last thirty-five years. To do this, we should have to write a complete history of trade during the last decades, such as would occupy, with all possible conciseness, too much space for the present publication. But remarks on certain particularly noticeable changes in the prices of important articles will be found at the close of the tables.

Average prices of 100 articles at Hamburg during the period from 1851 to 1885, compared to the average prices of the years 1847–'50, with corresponding index numbers, as ascertained by the Bureau of Trade Statistics at Hamburg.

I.—PRODUCTS OF AGRICULTURE.

	(1) W	heat.	(2) Whe	at flour.	(3)	Rye.	(4) Ry	e flour.	(5)	Dats.
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847–'50	Marks. 19.44	100.00	Marks. 28.92	100.00	Marks. 12.24	100.00	Marks. 14.85	100.00	Marks. 11, 16	100.00
1851		85.49	25. 02	86. 51	13.80	112. 75	16.62	111.92	14.40	129.0
18 <b>52</b>		89. 51 108. 33	27. 42 32. 82	94.81 113.49	14. 40 16. 56	117.65 135.29	20, 77 22, 32	139, 19 150, 30	13.62 15.54	122. 04 139. 2
654	30.18	155. 25	41.28	142.74	21.48	175. 49	27.42	184, 65	18.00	161. 2
1855	31. 20	160. 49	45. 18	156. 22	23.28	190. 19	30.48	205. 25	17. 28	154.8
1851-'55	23. 28	119.75	34, 32	118.67	17.88	146.08	23, 55	158. 59	15. 78	141.4
856		150.62	42.00	145. 23	21.54	175. 98	28. 62	192. 73	16.68	149.4
1857		115. 74	33.30	115. 15	15. 36	125. 49	27. 24	183. 43	15.42	138, 1
858		95. 06 101. 23	28. 56 27. 48	98, 75 95. 02	13.68 14.04	111.76 114.71	22.80 21.96	158. 54 147. 88	14. 40 14. 34	129. 0: 128. 4
860	23.04		32. 46	112. 24	15.90	129. 90	21.42	144. 24	15.06	134. 9
18 <b>56–'60</b>	22.62	116. 36	82. 76	113, 28	16.08	131.37	24. 42	164. 44	15. 18	136.02
. <b>861</b>	24.60	126. 54	34. 92	120, 75	15. 66	127. 94	23.88	160.81	14.64	131, 10
862		118.83	31.56	109. 13	16.98	138. 73	. 22.92	154.34	13. <b>6</b> 8	122.5
.968	19.92 16.68	102. 47 85. 80	26.88 24.60	<b>92. 9</b> 5 85. 0 <del>8</del>	15. 30 12. 18	125. 00 99. 51	19.08 16.38	128 <sub>4</sub> 48 110.30	11.64 13.20	104.30 118.2
865	17.28	88. 89	25. 50	88. 17	13.62	111. 27	17.88	120.40	15. 42	138. 1
1861-'65	20.34	104. 63	28.68	99. 17	14. 76	120. 59	20.04	134. 95	13. 74	123.1
866		104.63	29. 28	101.24	15, 42	125. 98	21.96	147.88	15. 72	140.8
867	28.44 27.30	146.30	34.98	120.95	21.30	174.02	26.34	177.37	17. 10	153. 2
		140. 43 107. 41	33, 12 30, <b>06</b>	114. 52 103. 94	20.94 17.58	171.08 143.63	25. 98 21. 06	174. 95 141. 82	18.30 17.52	163, 9 156, 9
870		103.39		102.90	15. <b>66</b>	127. 94	21.72	146. 26		130, 2
1866-'70	23. 40	120.37	31.44	108. 71	18. 18	148.53	23. 40	157, 58	16. 63	148. 9
1871 1872	23.96	123. 25		110.30	18. 70	152. 78	21.32	143.57	15. 58	139.6
872	24. 92	128. 19	34. 42	119.02	15.82	129.25	22. 94	154. <del>48</del>	15.02	134. 5
873	25. 94 23. 39	133. 44 119. 96	36. 52 34. 56	126. 28 119. 50	18. 16 18. 48	148, 37 150 98	25. 16 25. 20	1 <b>69</b> . <b>4</b> 3 170. 10	16, 50 18, 48	147. 8 165. 5
875		105.45		98.13	16. 6 <del>1</del>	135. 95	22. 70	152.86	17. 68	158. 4
1871–'75	23. 72	122. 02	33. 16	114.66	17. 56	143, 46	23.48	158.11	16.66	149. 2
876	21. 24	109. 26	29.62	102. 42	17. 20	140. 52	24. 06	162, 02	17.44	156. 2
1876 1877	24. 32	125.10	31.54	109.06	17. 72	144, 77	23.94	161, 21	16.88	151.2
.878	21.42	110. 19 109. 88	31.34	108.37	14.32	116.99	22. 26 21. 50	149.90	14.41	129.3 125.9
879  880	21. 36 21. 74	111.83	31, 46 31, 67	108. 78 109. 51	14. 50 18. 37	118.46 150.08	21. 30 25. 33	144. 78 170. 57	14.06 14.85	133.0
1876–'80		113. 27	31. 13	107.61	16.42	134. 15	23. 42	157. 71	15. 53	139. 1
881	22. 21	114. 25	<b>33.</b> 32	115. 21	19. 76	161.44	25.66	172. 79	15. 75	141, 1
.882	20.43	<b>105.09</b>	<b>82.0</b> 3	110.75	16.07	131. 29	21.09	142.02	15. 52	139.0
.883		95, 99 86, 32	28.87 24.50	99. 80 84. 72	14. 48 13. <b>9</b> 7	118. 30 114. 13	17. 97 18. 02	121.01 121.35	13. 74 13. 74	123. 1 123. 1
885	16. 78 15. 83	78. 86	22. 67	78. 39	13. 97 12. 21	99. 75	16. 82	113. 27	13. 7 <b>9</b>	123. 5
1881-'85	18.68	96. 09	28. 28	97. 79	15. 30	125, 00	19. 91	134.07	14. 51	130.0

### I.—PRODUCTS OF AGRICULTURE—Continued.

	(6) B	arley.	(7) 1	Malt.	(8) Buo	kwheat	(9) <sub>.</sub> I	Peas.	(10) Beans.		
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Inde No.	
1847-'50	Marks. 14. 34	100.00	Marks. 20.16	100.00	<b>Marks</b> . 12. 84	100. 00	Marks. 12.90	100. 00	<b>Mark</b> s. 21, 24	100	
851	12. 00	<b>83. 6</b> 8	14. 22	70. 54	10. 20	79. 44	11. 58	89. 37	26. 58	125.	
852		105. 86	22. 20	110. 12	14.58	113. 55	13. 20	102. 33	26.40	124.	
9 <b>58</b>		108. 35 130. 96	21. 36 22. 32	105. <b>95</b> 110. 71	19. 48 18. 84	143. 93	17. 4 <b>6</b> 18. 84	135.35	32.34	152.	
855	18. 24	127. 20	<b>29.</b> 28	145. 24	18.66	146. 78 145. 33	18. 78	146. 05 145. 58	27. 90 33. 18	131. 156	
1851-'55	15. 78	110.04	21. 90	108. 63	16. 14	125. 70	15. 96	123.72	29. 28	137.	
35 <b>6</b>	19. 62	136. 83	30. 18	149. 70	18.60	144. 86	14. 10	109. 30	27. 24	128	
967	17. 70	128. 43	27. 54	136. 61	17.04	132. 71	18.00	139. 53	21.22	107	
358	14.82	108. 35	25. 02	124.11	15.06	117. 29	17.82	138.14	24. 00	112	
59	15. 96	111. 80	21.24	105, 36	12.72	99. 07	17.40	134. 88	24, 54	115	
60	16. 98	118.41	21.60	107.14	15.18	118. 22	17. 82	138. 14	25. 20	118	
1856–'60	17.04	118. 83	25. 14	124. 70	15. 72	122. 43	17. 04	132.09	24. 78	110	
61		118.41	24. 54	121. 73	15.66	121.96	17. 64	136.74	25. 26	118	
62	16. 32	113.81	22.68	112.50	14. 80	115. 26	17.88	138.60	<b>24.</b> 48	11:	
<b>63</b> <b>64</b>		100. 28	22. 38	111. 01 97. 92	13.44	104. 67	14.40	111.63	21.84	103	
64	13. 3 <b>2</b> 15. 78	92. 89 110. 04	19. 74 18. 72	92. 86	13. 80 18. 92	107. 48 108. 41	12. 90 15. 06	100.00 116.74	23. 16 26. 76	10	
1861-'65	15. 54	108. 37	21. 60	107. 14	14.84	111. 68	15. 60	1 <b>2</b> 0. 93	24. 30	114	
86		131. 80	28. 08	139. 29	14. 82		17. 64	136. 74			
67	19. 92	138. 91	29. 52	146. 43	15. 72	122. 43	18.72	145. 12	25.56	12	
<b>68</b>	21. 16 20. 52	147. 56 143. 10	27. 36 26. 46	135. 71 131. 25	18. 48 17. 94	143. 98	20. 58 18. 72	159. 53	27. 18	13	
<b>69</b> 70	16. 20	112.87	23. <b>4</b> 0	116. 07	16.56	139. 72 128. 97		145. 12 134. 88	24. 12 27. 36	113	
1866-'70	19. 32	134. 73	26. 94	133. 63	16. 68	129. 91	18.60	144. 19	26.04	12	
71	18. 34	127. 89	24.04	119. 25	15. 98	124. 45	18. 26	141.55	24. 38	114	
72	21.90	152. 7 <b>2</b>	<b>2</b> 6. 58	131. 85	16. 14	<b>125.</b> 70	18.96	146.98	24. 82	110	
73		159. 14	28. 64	142.06	17 68	137. 69	22. 26	172. 56	38. 80	13	
74	22. 14	154. 39	32, 60	161.71	17.76	138, 32	21. 12	163. 72	26.74	12	
75	21. 84	152. 30	80.00	148. 81	17. 04	132. 71	20. 68	160. 31	23.76		
1871–'75		149. 23	28. 38	140. 77	16. 92	131. 78		157. 05		12	
76	19.50	135. 98	29. 24	145. 04	19. 42	151. 25	20. 80	161. 24	23.00		
77	<b>20. 94</b> <b>2</b> 0. 18	146. 02 140. 73	29. 82 29. 90	147. 92 148. 31	17. 86	134. 10 126. 01	20, 12 19, 08	155. 97	23. 36 22 52	119	
78	21. 90	152. 72	28. 42	140. 97	16. 18 17. 28	126. 01 184. 58	19. 08 19. 34	147. 91 149. 92	22 52 24. 30	114	
80	21.18	147. 70	80. 52	151. 39	18. 48	143. 93	20.06	155. 50	26. 53	12	
1876-'80	20. 74	144. 63	29. 58	146. 73	17. 84	138. 94	19. 88	154. 11	24. 30	114	
81	20. 89	145. 68	29. 84	148. 02	16. 47	128. 27	20. 89	161. 94	26. 12	12	
82	19.90	138. 77	28. 88	143. 25	17. 16	183. 64	21. 10	163. 57	24. 81	. 110	
383	17. 37 16. 13	121. 12 112. 48	28. 82 29. 45	142. 96 146. 08	21. 80 15. 32	1 <b>69.</b> 78 119. 31	18. 42 18. 43	142.79 142.87	25, 19 24, 67	118	
384 385	14. 29	99.65	27.72	137. 50	15. 32 16. 27	126.71	17. 68	137.05	23.62	10	
1881-'85	17 59	123. 57	28. 94	148. 55	17. 40	185. 51	19. 30	149. 61	24.88	117	

#### I.—PRODUCTS OF AGRICULTURE—Continued.

	(11) Po	tatoes.*	(12) 1	Нора.	(13) Clov	er-seed.	(14) Ra	p <del>e</del> -seed.	(15) Raj oi	p <b>o-806</b> ],
Years.		<del>-</del>	i							
	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Inde No.
1847-'50	Marks. 5. 55	100.00	Marks. 89.76	100.00	Marks. 65. 22	100, 00	Marks. 25. 92	100.00	Marks. 72.54	100.
31	4. 56	82. 16	134. 40	149. 73	73. 68	112.97	22. 02	84. 95	63. 42	87.
2		89.37	151. 20	168.45	86. 70	132. <b>93</b>	23. 82	91. 90	66.60	91
<b>8</b>	6. 47 6. 92	116.58 124.68	196. 08 282. 12	218.45	97. 14	148. 94 167. 63	28. 68 29. 58	110. 15 114. 12	68. 16 88. 82	98 115
i4 i6	1	129. 01	216.54	241. 24	112.47	172. 45	43.02	165. 97	106. 86	147
1851-'55		108. 29	196. 08	218.45	95. 88	147. 01	29. 40	113. 43	77.76	107
<b>6</b>		130. 99	125. 82	140. 17	125. 10	191. 81	86. 51	140. 97	95. 58	181
7	5. 80	95. 50	129. 78	144.59	116.49	178.61	38. 18	128.01	96. 80	132
<b>16</b>		68.49 74.95	119.16 166.26	132. 75 185. 23	110. 58 119. 67	169. 55 183. 49	83. 84 26. 64	124.77 102.78	80.04 71.58	110 98
0	6 ii	110.09	298. 32	832. 35	109. 41	167. 76	29. 52	113.89	79. 80	110
1856-'60	5. 31	95. 68	167. 88	187. 03	116. 22	178. 20	31. 62	121. 99	84. 66	116
11	7. 62	137. 30	198. 90	221. 59	104.40	160.07	30.42	117.86	76.44	105
2		87. 39	153. 54	171.06	98.88	151.61	85. 22	185. 88	89. 88	123
<b>3</b>	1	86. 31 93. 51	203. 10 232. 80	226. 27 259. 36	95. 52 93. 72	146. 46 148. 70	31. 20 31. 62	120.87 121.99	85. 14 79. 88	117
<b>5</b>	5. 25	94. 60	253. 44	282. 35	133. 32	204. 42	83. 60	129.63	83. 28	114
1861-'63	5. 54	99. 82	208. 38	232. 15	105. 18	161. 27	32. 40	125, 00	82. 80	114
<b>16</b> . <b></b>		99. 82	326. 76	364. 04	127. 56	195. 58	30.18	116.44	84.66	110
87		126. 95	261.73	201. 58	145. 80	223. 55	29. 82	115. 05	72.86	99
i8 19		107. 03 101. 80	185. 10 164. 40	206. 22 183. 16	115.40 98.88	176.94 151.61	27. 42 31. 32	105, 79 120, 83	66.00	90 96
<b>0</b>		101. 26	186. 48	207. 75	115. 56	177. 18	34. 86	134. 49	89. 10	122
1866- '70	5. 96	107. 39	224. 88	250. 53	120. 66	185. 00	30.72	118.52	76 33	105
1		113.51	288.00	<b>320</b> . 86	131.54	201.69	36.74	141.74	80.68	1111
<b>2</b>		118.92	280. 98	813.03	122.74	188. 19		122.62	74.82	103
3		118. 74 128. 83	283. 24 382. 14	315. 55 425. 73	102.34 108.20	156. 92   165. 90	28. 04 25. 60	108, 18 98, 77	63. 84 66. 26	88
5		119. 82	289. 06	322.04	112.64	172.71			65. 64	90
1871-'75	6. 66	120.00	304. 68	839. 44	115. 50	177.09	30. 24	116.67	70. 24	96
6		121.08	278. 22	309. 96	136. 80	209. 75	31. 22	120. 45	68. 58	94
7		138. 74	252, 94	280. 79	189. 40	213. 74	83. 12	127. 78	74. 50	109
8 <b></b>		134. 41 142. 34	195. 54 240. 88	217. 85 268. 36	111.64 102.54	171. 17 157. 22	29. 82 26. 54	113. 12 102. 89	67. 74 59. 46	93
0	7. 78	140. 18	234. 72	261. 50	105. 95	162. 45	23. 96	92.44	57. 40	78
1876–180	7.51	135. 32	240. 28	207. 69	119. 27	182. 86	28. 83	111. 23	65. 54	9(
1		112.61	229. 41	255. 58	99. 04	151. 85	27. 94	107. 80	58. 62	80
2 3		91. 17 110. 81	370. 50 464. 23	412. 77 517. 19	103. 64 130. 77	158. 91 200. 50	29. 52 30. 85	113. 89 119. 02	58. 13 71. 58	96
84	5. 64	101. 62	312. 77	348. 45	113. 38	173. 84	24. 81	95. 72	64. 27	88
35	5. 47	98. 56	218. 11	242.99	101.43	155, 52	23. 39	90. 24	54. 09	74
1891-'85	5. 71	102.88	319.00	355. 39	109.65	168. 12	27. 30	105. 32	61. 34	84

<sup>\*</sup> For articles marked with an asterisk (\*) the prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

#### I.—PRODUCTS OF AGRICULTURE--Continued.

<b>Үеаг</b> я.		inseed- il.	(17) O	il-cake.	(18) sug	Raw gar.	1	Refined gur.	from g	Spirite grain or Ltoes.	(1-20.
T Cont or			l			<b>-</b>				1	Total
	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per hecto.	Index No.	
<u> </u>	36	<u> </u>	36		36						<u>'</u>
1847-'50	Marks. 58. 38	100.00	Marks. 9. 36	100 00	Marks. 45, 66	100.00	Marks. 56. 82	100.00	Marks. 31. 57	100.00	100. 0
851	66. 42 60. 42	113.77 103.49	8. 22 9. 00	87. 82 96. 15	42. 60 40. 38	93. 30 88. 44	52. 02 50. 82	91. 55 89. 44	32. 35 45. 10	102.47 142.86	99. 0 110. 7
858		105. 45	10.68	114. 10	46. 44	101.71	56. 82	100.00	52. 51	166. 33	128. 1
854	. 75. 60	129. 50	12.06	128. 85	47. 52	104. 07	55. 56	97. 78	72.00	228.06	150. 4
855	. 80. 10	137. 20	13.86	148. 08	49. 74	108. 94	66. 54	117.11	70. 25	222. 52	158.
1851-'55	. 68. 82	117. 88	10. 74	114. 74	45. 36	99. 34	56. 34	99. 16	58. 11	184. 07	129. 9
856 857	. 78. 42 . 79. 80	184. 33 186. 69	13. 08 13. 14	139. 74 140. 38	64. 14 72. 54	140 47 158, 87	77. 34 89. 10	136. 11 156. 81	66.70	211.28 171.87	149. 0 138. 1
.658		110. 28	13. 82	142.31	53. 04	116. 16	73.68	129.67	35. 37	112.04	1136. 1 119. 9
859	. 59.88	102.57	11.82	126. 28	52. 02	118. 93	70.02	123. 23	89.47	125. 02	119.4
860	. 59. 58	102.06	10. 68	114. 10	53. 82	117. 87	67. 68	119. 11	46. 52	147. 36	133. 7
1856-'60	68. 40	117. 16	12. 42	132. 69	59. 10	129. 43	75. 54	132. 95	46. 96	148.75	131. 8
861	. 65. 10	111. 51	10. 62	113.46	44.58	97. 63	67.14	118.16	51.04	161.67	131. 4
862		135. 6 <b>6</b>	18. 26	141.67	44.40	97. 24	63. 72	112. 14	44. 33	140. 42	126. 8
8 <b>63</b>	-	147. 69	12.84	137. 18	44. 04	<b>96.</b> 45	62. 64	110. 24	39.31	124. 52	120. 1
864	. 76. 32 . 70. 44	130. 73 120. 66	11.40 15.12	121. 79 161. 54	45. 86	119. 32 99. 34	72. 12 61. 74	126. 93 108. 66	39. 37 35. 58	124.71 112.70	117. 8 126. 4
1861-'65	. 75. 48	129. 29	12. 66	135. 26	46. 56	101. 97	,	115. 21		130.03	124. 4
866	. 80.16	137. 31	12. 60	134.62	43. 50	95. 27	63. 12	111.09	36. 6 <del>6</del>	116, 12	137. 6
867		131.96	12.60	134. 62	44.04	96. 45	63.48	111. 72	47. 67	151.00	146.
868 86 <b>9</b>		118, 50 110, 69	15. 90 15. 78	169. 87 168. 59	47. 28 54. 72	103. 55 119. 84	67. 14	118. 16 126. 29	48. 98 45. 12	155. 15 142. 92	141.8 132.4
870	1 1	114. 18	16. 32	174. 36	51. 96	113.80		121. 12	39. 54		131.
1 <b>866-'7</b> 0	71. 52	122. 51	14. 64	156. 41	48. 30	105. 78	66. 84	117. 63	43. 17	136. 74	137. 7
871		120.09	15. 10	161. 32		159. 83		130. 94	43. 12	136, 59	144.
872		123.71	17.36	185. 47		116.08	75. 8 <b>6</b>	133. 51 123. 86	43. 92 46. 52	139. 12	144.
873 874		119. 84 103. 39	15.08 14.82	161. 11 158. 33	50.36	112. 22 110. 29	70. 38 64. 98	123. 80 114. 36		147. 36 147. 77	14 <b>6</b> . :
875	1	92. 15	16. 08	171. 79	46. 30	101.40	62.06	109. 22		114.76	138.
1871-'75 .	65. 88	112. 85	15. 68	167. 52	54. 78	119. 97	69. 54	122. 39	43. 40	137. 79	144. 9
876	. 56. 16	96. 20	16. 28	173. 93	47. 88	104.86	61. 14	107. 60	34. 87	110. 45	141. (
877	. 61.60	105. 52	16.06	171.58	56.38	123.48	68.98	121.40	38. 30	121. 82	145.
878		101. 23	16. 94	180. 98	55. 58	121. 73	61.30	107. 88	89. 55	125. 28	132.
879 880	. 57. 84 . 60. 05	99. 08 102. 86	15. 46 15. 06	165. 17 160 <b>. 9</b> 0	51. 24 51. 21	112. 22 112. 16	57. 56 60. 33	101.30 10 <b>6.</b> 18	40. 87 46. 05	127. 87 145. 87	132. 9 138. 3
	<u> </u>				<u> </u>		[	<del></del>			<b> </b>
1876-'80		100. 98	15. 96	170. 51	<u> </u>	114. 89	61. 86	108. 87	40.73	129. 01	138.
981		99. 45	15. 53	165. 92	50.57	110. 75	59.50	104. 72	46.97	148. 78	137.
882		93. 88 85. 53	14. 94 13. 98	159.62 149.36	49. 37 46. 57	108, 13 101, 99	58. 02 55. 85	102. 11 98. 29	<b>89</b> . 20 <b>41. 57</b>	124, 17 131, 68	138. ( 148. 3
884		78. 81	13. 25	141.56	36.66	80. 29	46. 79	82. 35	87. 62	119.16	123. 8
885	49. 55	84. 87	12. 22	130. 56	26. 59	58. 23	88. 82	68. 32	33. 23	105. 26	110.7
1881-'85	51. 67	88. 51	18. 98	149. 36	41.95	91.87	51. 80	91. 17	89. 72	125. 82	130. 7

#### II.—ANIMAL AND FISH PRODUCTS.

	(21) 1	Beef.*	(22) \	Teal.*	(23) M	utton.*	(24) P	ork.*	(25)	dilk.*
Years.	Per kilo.	Index No.	Per kilo.	Index No.	Per kilo.	Index No.	Per kilo.	Index No.	Per liter.	Index No.
1847-'50	Marks. . 72	100.00	<b>Marks</b> 81	100.00	Marks 93	100. 00		100. 00	Marks 07	100. 0
851	. 64	88. 89	. 70	86. 42	. 95	102. 15	. 99	115. 12	. 067	95. 7
852	. 58	80. 56	. 64	79. 01	. 95	102.15	. 99	115. 12	.067	95. 7
853	. 62	86. 11	. 72	88. 89	. 95	102.15	. 99	115, 12	. 067	95. 7
854	. 65 . 79	90. 28 109. 72	. 74 . 86	91. 36 10 <b>6</b> . 17	. 95	102. 15 102. 15	. 99 1. 10	115. 12 127. 91	. 067 . 067	95. 95.
1851-'55	. 65	90. 28	. 72	88. 89	. 95	102. 15	1.04	120. 93		100.
1001-00		<u> </u>	===					=		
856	. 76	105. 56	. 83	102, 47	. 95	102.15	1.06	123. 26	. 067	95.
857 858	. 72 . 72	100. 00 100. 00	. 82 . 82	101. 23 101. 23	. 95	102. 15 102. 15	1.01 .96	117. 44 111. 63	.067	95. ' 95. '
859	. 65	90, 28	. 74	91.36	. 95	102. 15	.90	104.65	.067	95.
860	. 62	88. 11	. 72	88, 89	. 95	102, 15	. 94	109.30	. 067	95.
1856-'60	. 69	95. 83	. 79	97. 53	. 95	102. 15	. 97	112. 79	. 07	100. (
861	. 69	95. 83	.74	91. 36	. 95	102. 15	. 94	109.30	. 06	85.
862	. 79	109. 72	. 82	101. 23	1.05	112.90	1.05	122.09	.07	100.
863	. 77	106.94	. 79	97. 53	1.06	113. 98	1.05	122.09	- 06	85.
8 <b>64</b> 9 <b>65</b>	. 80 . 88	111. 11 122. 22	1.02	102. 47 125. 93	1.06	13. 98 89. 25	1.05 1.03	122. 09 122. 09	.06	85. 157.
1861-'65	. 79	109. 72	. 84	103. 70	. 99	106. 45	1.03	119. 77	.07	100.
866	. 96	133. 33	1.04	128. 40	1.00	107. 53	. 97	112. 79	.10	142.
867		141. 67	1.04	128. 40	. 99	106. 45	. 93	108.14	. 10	142.
968		136. 11	1.07	132. 10	1.01	108.60	1.01	117.44	.11	157.
8 <b>69</b>	1. <b>6</b> 0 1. <b>0</b> 0	138. 89 138. 89	1. 05 1. 02	129. <b>6</b> 3 125. 93	1. 05 1. 11	112. 90	1. 12 1. 05	130. 23 122. 09	.11	157. 142.
1866-'70	. 99	137. 50	1.04	128. 40	1. 03	110. 75	1. 02	118.60	.10	142.
061	1.00			107 04	1 10	100 00		100 14		140
871 872		150.00 152.78	1.11 1.24	137. 04 153. 09	1. 18 1. 49	126. 88 160. 22	. 93 1. 07	108. 14 124. 42	. 10	142. 171.
573		169.44	1.24	153. 09	1.08	116. 13	1. 18	137. 21	.12	171.
874		165. 28	1.38	170.37	1. 22	131. 18	1.095		. 12	171.
875. <b></b>	1. 17	162. 50	1. 205	148.77	1. 31	140. 86	1. 17	186. 05	. 14	200.
1871-'75	1. 15	159. 72	1.24	153.09	1. 26	135. 48	1. 09	126. 74	. 12	171.
876		170. 83	1. 44	177. 78	1. 52	163. 44	1. 09	126. 74	. 13	185.
877		173. 61	1. 52	187. 65	1.49	160. 22	1. 10	127. 91	.14	200.
878			1 45	179.01	1. 45	155. 91	1.02	118. <b>6</b> 0 11 <b>6. 2</b> 8	.14	200. 185.
8 <b>79</b> 8 <b>80</b> .		158. 33 168. 06	1.38	170.37 174.07	1. 40	150. 54 153. 76	1.00	132.56	.13	171.
1876-'80	1. 22	169. 41	1.44	177. 78	1.46	156. 99	1. 07	124. 42	. 13	185.
881	1. 09	151. 39	1. 46	180. 25	1. 45	155. 91	1. 24	144. 19	. 12	171.
882		163. 89	1.47	181. 48	1.51	162. 37	1. 16	134. 88	. 12	171.
833	1. 19	165. 28	1.51	186. 42	1.62	174. 19	1. 09	126. 74	. 12	171.
884	1.16	161. 11	1. 52	187. 65	1.46	156. 99	1.01	117.44	. 12	171.
885	1.08	150. 00	1.50	185. 19	1. 32	141. 94	1.01	117.44	. 12	171.
1881-'85	1. 14	158. 33	1.49	183. 95	1.47	158.06	1.10	127. 91	. 12	171.

#### II.—ANIMAL AND FISH PRODUCTS—Continued.

	(26) B	utter.*	(27) C	heese.	(28) T	Callow.	(29)	Lard.	(30) I	lides.
51	Per kilo.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847-'50	Marks. 1. 20	100. 00	Marks. 79. 68	100:00	Marks. 82.14	100. 00	<b>Marks</b> . <b>93.</b> 12	100.00	Marke. 83. 35	100. 0
851		101. 67	78. 42	98. 42	70. 20	85. 46	100. 62	108. 05	89. 39	107. 2
852		101. <b>67</b>	82. 20	103. 16	78. 18	95. 18	106.38	114. 24	84. 21	101.
		128. 33	91. 92	115. 36	97.68	118.92	115. 20	12 <b>3.</b> 71	102.66	123.
855	1. 67 1. 74	139. 17 145, 00	101.58 107.40	127. 48 134. 79	118. 20° 108. 18	143. 90 131. 70	116. 22 117. 00	124. 81 125. 64	109. 17 112. 51	130. 134.
		120. 83	92. 28	115. 81	94. 50	115. 05	111.06	119. 27	97. 68	117.
	===			====	====					
		160, 83	104. 52	131. 17	103, 68	126 22	121.92	130.93	129.02	154
		155, 00	108.66	136.37	108.60	132. 21	126. 18	135. 50	173. 21	207.
		162. 50 153. 33	104. 46 103. 50	131. 10 129. 89	95. 70 105. 78	116, 51 128, 78	104.76	112.50	118.08	141
860	1.90	165. 83	107. 76	135. 24	107. 22	130. 53	103. 56 112. 98	111. 21 121. 33	134. 79 143. 09	16L.
1856-'60	1.91	159. 17	105.78	132.76	104. 22	126. 88	118. 88	122, 29	142. 50	170.
861	1.71	142. 50	98. 92	124. 15	102. 96	125. 35	107. 16	115.08	120. 12	144
.862		138, 33	98, 10	123. 12	92. 82	113.00	88. 86	95. 48	115.62	138
863		130.00	108, 30	135. 92	82. 14	100.00	75.78	81. 38	103, 18	123.
<b>864</b>		150.00	108. 02	129. 29	<b>78. 36</b>	95. 40	97. 56	104.77	106.34	127.
865	1.95	162. 50	105. 48	132. 38	83. 10	101. 17	134. 46	144. 39	99. 60	119.
1861-'65	1.74	145. 00	102.72	128, 92	87. 90	107. 01	100.74	108. 18	108.97	130.
866	1. 91		111. 18	139. 53	82. 38	100. 29	118.80	127. 58	99. 48	119.
867		146. 67	114.96	144. 28	92. 34	112. 42	104.10	111. 79	103. 38	124
		180. 83	109. 02	136. 82	89. 70	109. 20	124. 02	133. 18	115.80	138.
		178. 33	115.68	145. 18	89.40	108.84	129.72	139. 30	105.00	125.
	<u> </u>	156. 67	110. 16	138. 25	88. 56	107. 83	125. 16	134. 41	112. 38	134
1866-'70	1. 97	164. 17	112. 20	140. 81	88. 50	107.74	120. 36	129. 25	107. 22	128.
871	2. 04	170.00	114. 20	143. 32	87. 90	107. 01	102. 50	110.07	129. 96	155.
872	1.99	165. 83	128.40	161. 14	86. 50	105. 31	80. 82	86. 79	151.56	181.
		190.00	128. 32	161.05	84. 22	102. 53	86. 52	<b>92</b> . <b>91</b>	156.48	187.
8/4		215. 83	126. 84	159. 18	82. 46	100. 39	105. 96	113. 79	148, 72	178.
810	2. 40	200. 00	127. 56	160.00	87.02	105. 95	122 18	131. 21	136. 28	163.
1871 - '75	2. 26	188.33	125. 06	156, 95	85. 62	104. 24	99. 60	106. 96	144.60	173. 4
8 <u>76</u>	2. 61	217. 50	128. 28	160.09	87. 92	107. 04	111. 80	120.06	111.60	133.
877		195. 00	139. 04	174. 50	85. 92	104.60	97. 92	105. 15	112.94	135.
		182. 50	123. 16	154. 57	81. 70	99. 46	78. 04	<b>83.</b> 81	104.68	125.
880	2. 02 2. 32	168. 83 193. 33	115. 96 120. 25	145. 53 150. 92	70. 98 <b>69</b> . 60	86. 41 84. 73	72. 74 84. 08	78. 11 <b>9</b> 0. 29	104. 24 116. 90	12 <b>5.</b> 140.
1876-'80		191. 67	125. 34	157. 30	79. 22	96. 45	88. 92	95. 49	110.07	132.
88 <b>1</b>	2. 41	200. 83	122. 42	153. 64	73. 83	89. 88	112. 12	100 40	110 02	143.
882		200. 00	114. 18	143. 30	87.04	105. 97	112. 12 116. 72	120. 40 125. 34	119. 23 116. 82	140.
883		191. 67	117. 74	147. 77	89. 81	109. 34	98. 97	106. 28	117.14	140.
.884	2. 28	190.00	114. 92	144, 23	75. 88	92. 38	80. 25	86. 18	117. 26	140.
885	2. 12	176. 67	103.77	130. 23	69. 81	84. 99	67. 95	72. 97	117. 80	141.
1881-'85	2. 30	191. 67	114. 61	143. 84	79. 27	96, 50	95. 20	102, 24	117.65	141.

#### II.-ANIMAL AND FISH PRODUCTS-Continued.

	(31) Cal	f-skins.	(82) Le	ether.	(33) Ho	rse-hair.	(84) Br	istles.	(85) Fe	athers
32 38 34 35 36 37 38 39 30 31 32 33 34 35 36 37 38 39 70 1866–'70 1871–'75 1871–'75	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 190 kilos.	Index No.	Per 100 kilos.	Inde: No.
1847-'50	Marks. 156.00	100. 00	Marks. 263. 88	100. 00	Marks. 276. 48	100. 00	Marks. 854. 06	100. 00	Marks. 160. 50	100.
<b>351</b>	162. 60	104. 23	302. 86	114. 99	376. 20	136. 07	412.63	116.54	174 18	108.
<b>852</b>	139. 88	89. 35	305. 96	116. 17	291.60	105. 47	426.00	120. 32	185. 22	115.
	167. 10 211. 44	107. 12 135. 54	264. 47 285. 58	100. 41 108. 48	377.70 338.88	136. 61 122. 57	<b>494</b> . 82 <b>625</b> . <b>66</b>	139.76 176.68	186. 54 168. 24	116. 104.
<b>355</b>	203. 46	130, 42	888. 17	128. 40	263. 88	95. 44	485. 16	137. 08	188.76	117.
1851-'55	176. 82	118. 35	816. 90	120. 32	829. 64	119. 23	489. 18	138. 16	180.60	112.
8 <b>56</b>	289. 58	158. 58	871.89	141. 20	417. 48	151.00	422.16	119. 23	184. 02	114.
857	294. 06	188. 50	428, 97	162. 87	457. 38	165. 43	484. 86	136. 94	180.00	112.
	207. 00	1 <b>32.</b> 69 179. 96	370. 11 414. 12	140. 52 157. 23	387. 84 416. 64	140. 28 150. <b>69</b>	448. 04 448. 50	125. 13 126. 67	175, 26 178, 82	109. 111.
	280. 74 813. 08	200. 69	487. 81	166. 28	400. 80	144. 97	634. 02	179. 07	164. 28	102
1856-'60	266. 88	171.08	410. 32	155. 79	416.04	150. 48	486. 54	137. 42	176. 40	109.
	239. 82	158. 73	370. 22	140. 56	340. 38	128. 11	475. 50	134. 30	165. 72	103
	225. 00	144. 23	405. 84	158. 90	338. 22	122. 83	466. 62	181.79	175.08	109
	250. 32 275. 28	160.46 176.46	409.78	155. 57 166. 08	346. 14 321. 90	125. 20 116. 43	872. 06 582. 92	105. 08 150. 52	165. 80 156. 54	102 97
65	265. 96	170. 50	429. 00	162. 88	8 <b>9</b> 3. 00	109. 59	503. 64	142. 25	172. 44	107
1861-'65	251. 28	161. 08		155, 80	829. 94	119. 84	470. 16	132. 79	167. 04	104
	243. 30	155. 96	485, 13	184. 19	272. 10	98. 42	555. 18	156. 80	174. 18	108
••••		160. 62	854. 31	134. 52	844. 10	124. 46	501.06	141. 52	168. 48	104 111
		164.81 159.62	293. 99 835. 44	111. <b>62</b> 127. 36	372. 84 439. 50	134. 85 158. 96	423. 48 442. 50	119. 61 124. 98	178. 82 185. 82	115
70	249. 24	159.77	339. 13	128. 76	414.06	149. 76	549. 90	155. 31	217. 14	135
1866–'70	249. 84	160. 15	361. 60	137. 29	368. 52	133. 29	<b>494</b> . 40	139. 64	184. 80	115
71		171. 29	315. 54		546. 46	197. 65	565. 10	159. 61	211.56	181
72		192. 41	865. 94	138. 94	451. 92	163.45	730. 93	206.44	216. 72	135
		191. 82 173. 53	834. 28 890. 72	126. 92 148. 35	427. 26 363. 92	154. 53 131. 63	819. 90 725. 42	231. 57 204. 89	245. 52 245. 10	152 152
75				116.08	400. 62	144. 90	734. 14	207. 85	298. 36	185
1871-'75	275. 42	176. 55	342. 44	130. 02	438. 04	158. 43	715. 10	201. 97	243. 46	151
76		123. 95	320. 14	121. 55	317. 34	114. 78	767. 10	216.66	266. 10	165
77	175. 58	112. 55	300.68	114. 16	271.42	98. 17	730. 12	206. 21	212. 32	132
		103. 21 112. 68	260. 74 264. 30	99. 00 100. 85	261. 26 248. 36	94. 50 89. 83	643. 28 704. 28	181. 69 198. 92	190. 32 210. 14	118 130
80		136. 17	ε01. 25	114. 38	290.00	104. 89	770. 40	217. 59	191. 51	119
1876-'80	183. 61	117. 70	289. 42	109. 89	277. 68	100. 43	723. 04	204. 21	214. 08	183
81		125. 42	314.37		266. 74	96. 48	762. 94	215. 48	185. 96	115
82		126.04	318. 37	120. 88		119. 51	810. 52	228. 92	162.03	100
83 84		124.87 120.92	360. 17 371. 18	136. 75 140. <b>9</b> 3	867. 85 374. 70	133. 05 135. 53	824. <b>99</b> 852. 21	238, 01 240, 70	178. 74 178. 79	111 108
85		122. 00	330. 26	125. 39	846. 27	125. 24	748. 59	211. 48	161. 61	100
1881-'85	193, 21	123. 85	338.87	128. 66	887. 19	121. 96	799. 85	225, 91	172. 43	107

# Average prices of 100 articles at Hamburg, etc.—Continued. II.—ANIMAL AND FISH PRODUCTS—Continued.

	(36) 1	Bone.	(37) Oz	-horns.	(38) <b>M</b> u	icilage.	(39) Eggs.*	
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 St.	Index No.
1847-'50	Marks. 7.98	100.00	Marks. 40.80	100.00	Marks. 75.18	100.00	Marks. 3.48	100.00
1851	8.40	105. 26	51.42	126.03	74. 58	99, 20	4. 29	123. 25
1852 1853		107. 52 115. 79	55.80 57.24	186.76 140.29	72.60 73.08	96. 57 97. 21	-4.29	123, 20 123, 20
1854		119.55	52, 26	128.09.		114.05	4, 29 4, 29	123. 28 123. 28
1855		186.09	42, 72	104, 71	95.78	127.87	4. 29	123. 28
1851-'55	<b>9. 30</b>	116. 54	51, 90	127. 21	80.34	106.86	4. 29	123, 28
1856	10. 68	133. 83	47.04	115, 29	88. 80	110 19	4 90	123. 28
1857		140.60	58.92	144.41	125.94	118. 12 167. 52	4. 29 4. 29	123. 20 123. 28
1858	10.38	130.08	69.84	171.18	122. 34	162.73	4.29	123. 20
1859 1860	10.74 9.18	134.59	72.42	177.50	106. 08	141.10	4.29	123. 28
		115.04	<del></del>	201.62	97.62	129.85	4.29	123, 26
1856–'60	10.44	130, 83	66. 12	162.06	108.18	143.89	4. 29	123. 28
1861		119.55	70.62	173.09	105. 78	140.70	4. 29	123, 28
1862		119.55	64.80	158.82	95.16	126.58	4.83	138. 79
1863 1864.		123.31 121.05	64. 44 59. 52	157.94 145.88	91.56 87.30	121. 79 116. 13	4. 61	132, 47 136, 21
1865		119.55	<b>A</b>	168.38	89. 58	119.15	4. 20	120.69
1861–'65	9. 60	120. 30	65. 64	160.88	93. 90	124. 90	4. 53	130. 17
1866	9, 96	124, 81	71. 10	174. 26	88.44	117.64	4.39	126. 14
1867	10. 14	127.07	83.22	203. 97	82.26	109.42	4.17	119.8
1868		113, 53	70.74	173.38	87.72	116.68	4.38	125.80
1869 1870	11.76 12.36	146.37 154.89	96.08 73.20	235, 49 179, 41	126. 42 99. 84	168. 16 132. 80	4.51 4.50	129. d 129. 3
1866–'70	10.68	133. 83	78.87	193. 31	96. 96	128. 97	4. 39	126, 1
1871	19 09	150, 63	69. 24	169.71	107, 92	143, 55	4. 95	142, 24
1872	13.04	163, 41	81.22	206. 42	138.88	184. 73	5. 30	152, 30
1873	12.78	160. 15	64.64	158.43	139.60	185 <b>. 69</b>	5.74	164. 94
1874	14.06	176. 19	74.94	183.68	126.64	168.45	5. 55	159, 48
1875.		194. 24	84.14	206. 23	116.72	155. 24		168. 51
1871-'75		168.92	75.44	184. 90	125.96	167. 54	5.45	156, 61
1876			82. 80	202.94	102. 52	136. 37	5. 42	155. 78
1877		160.40	98.02	240. 25	91. 64	121.89	5. 25	150.86
1878 1879		152. 13 128. 07	78. 62 77. 90	192. 70 190. 93	87.44 91.02	116. 81 121. 07	5. 87 5. 17	154. 31 148. 56
1880	11. 26	141. 10	118.88	291. 37	96. 81	128.77	5. 42	155. 75
1876–'80	11. 98	150.13	91. 24	223. 63	93. 89	124. 89	5. 83	153. 16
1881	11. 35	142. 23	116, 84	286. 37	92.98	123. 68	5. 65	162.36
1882	12.81	160. 53	105. 63	258. 90	104. 30	138.73	5. 30	152. 30
1883	13. 58	170. 18	86.36	211. 67	103. 78	138.04	5. 83	153. 16
1884		154. 89	86. 87	212. 92	105.66	140. 54	5. 36	154. 03
1885		127. 94	85. 58	209. 75	108.02	143.68	5. 18	148. 85
1881-'85	10 00	151. 13	96. 26	235, 93	102, 95	136.94	5.86	15L 01

# Average prices of 100 articles at Hamburg, etc.—Continued. 11.—ANIMAL AND FISH PRODUCTS—Continued.

	(40) H	erring.	(41) Cu	red fish.	(42) F	ish oil.	(21-42)
Years.	Per 1-1 to.	Index No.	Per 100 kilos.	Index No.	Per 1-1 to.	Index No.	Total
1847-'50	Marks. 20. 25	100.00	Marks. 30. 24	100.00	Marks. 60.44	100.00	100.0
351	18.60	90, 64	28. 80	95. 24	72.01	119.14	110.3
352	25. 96 25. 67	126. 51 125. 10	31. 20 33. 24	103, 17 109, 92	71. 62 72, 24	118.50 119.52	106. 6 114. 9
744		121.98	37.08	122. 62	76, 24	126. 14	121.
355	25. 17	122, 66	40.44	133. 73	<b>89.</b> 18	147. 55	123. 8
1851-'55	24. 13	119. 16	34. 14	112.90	75. 77	125. 36	114.
356	27. 20	132. 55	37.62	124, 40	88. 96	147. 19	127.
357	<b>33. 6</b> 2	163. 84	44.34	146, 63	89. 70	148.41	140.
858	27. 81 29. 66	185.53	38.70	127.98	73.07	120, 90   116, 28	127. 130.
35 <b>0</b>	<b>26.</b> 78	144. 54 130. 51	43. 26 39. 36	143.06 130.16	70. 28 67. 71	110. 28	133.
1856–'60	28.90	142. 72	40.68	134. 52	77. 61	128.41	132.
<del>86</del> 1	29, 94	147. 85	40.98	135, 52	69. 48	114.96	124.
362	27.48	135. 70	52, 20	172.62	78. 68	130. 18	127.
BG3		128,99	49.38	163, 29	94.44	156. 25	124.
864		128. 94 149. 53	45. 00 53. 94	148. 81 178. 37	118. 59 90. 80	196, 21 150, 23	129. 135.
1861-'65	27. 99	138. 22	48. 30	159. 72	93. 45	154.62	128.
866	32. 31	159.56	53.04	175.40	79. 48	131. 50	135.
867	30. 86	152.40	41.94	138, 69	81. 45	134. 76	132.
968	30.70 25.36	151.60 125.23	43. 98 52. 20	145. 44 172. 62	71.14 72.46	117. 70 119. 89	133. 143.
870	<b>25.</b> 57	126, 27	48.84	161.51	79. 12	130. 91	139.
1866–'70	27. 97	1:'8. 12	48.00	258. 78	76. 37	126. 36	136.
871	29. 98	148.05	50, 72	167. 72	71. 16	117.74	144.
872		143. 36	46. 94	155, 22	74. 62	123, 46	155.
873		153. 58 157. 53	52.88	174.87 171.76	67. 31 66. 04	111. 87 109. 27	156. 157.
87 <b>5</b>		154. 86		146.76	66, 90	110.69	157. 158.
1871-'75	30. 75	149. 85	49. 88	163. 29	69. 15	114.41	154.
87 <b>6</b>	33. 08	163. 36	56. 12	185. 58	65. 17	107. 83	155.
877	35. 72	176.40	52. 54	173. 74	62. 97	104. 19	152.
8 <b>78</b>		163. 70 185. (9	51. 28 45. 90	169. 58 151. 79	57. 77 50. 98	95, 58 84, 85	141. 137.
880		160. 35	39. 23	129. 73	49. 37	81. 68	147.
1876-'80	84. 37	167. 50	49.01	162. 07	57. 06	94. 41	
881		168. 40	47. 92	158. 47	61. 36	101. 52	151.
882		176. 44	57. 50	190. 15	67. 89	111. 50	155.
883		180. 64 159. 36	62. 95 57. 26	208. 16 189. 35	72. 64 60. 61	120. 19 100. 28	156. 150.
		144. 64	52. 78	174.54	50. 49	83. 54	140.
1881-'85		165.88		184. 13	62, 50	108. 41	150.

#### III.—SOUTHERN PRODUCTS.

	(43) R	aisins.	(44) Cu	rrants.	(45) Almonds.		(46) Prunes.	
. Үеагв.	Per 100 kilos.	Index No.	Per 100 kilos.	'Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847–'50	Marks. 42. 72	100. 00	Marks. 47. 94	100. 00	<b>Marks</b> . 112, 56	100.00	Marks. 39. 60	100. 0
1851	35. 58	83. 29	32. 58	67. 96	125. 58	111. 57	37. 80	95. 4
1852		80.06	50. 58	105. 51	124. 80	110. 87	32.46	81 \$
1853		123.60	95. 64	199. 50	131. 16	116. 52	34. 08	86. (
1854		128. 93	27.48	57. 32	130.56	115.99	35. 46	89. 5
1855	51. 72	121. 07	76. 98	160. 58	134.40	119.40	46.80	118. 1
1851-'55	45.90	107.44	56. 64	118. 15	129. 30	114.87	37. 32	94.3
1856	81.24	190. 17	111.36	232. 29	135. 66	120, 52	47.94	118.7
1857	94. 38	220.93	89.10	185. 86	157.68	140.09	53.34	134.
1858	62.34	145.93	48.36	100.88	128.70	114.34	40.02	101.0
1859		137. 78	46.98	<b>9</b> 8. 00	111.36	98. 93	44. 40	112. 1
1860	54.72	128.09	41.46	<b>86. 48</b>	110.22	<b>9</b> 7. <b>9</b> 2	40.98	103. 4
1856–'60	70.32	164.61	67. 44	140.68	128. 70	114.34	45. 18	114, 0
1861	52, 62	123, 17	40.68	83, 60	117, 12	104. 05	43. 02	108. 0
18 <b>6</b> 2		119.38	38. 28	<b>79</b> . 85	107. 70	95. <b>6</b> 8	36.48	
1863		128.51	38.64	80.60	117.30	104. 21	39.54	99.8
1864		116.01	38. 28	79.85	121.08	107. 57	42.42	107.
1565		112.08	35. 28	73. 59	131.58	116.90	47.40	119. 7
1861-'65	•	119.80	1 1	79. 47	118. 92	105.65	41.76	105, 4
1866		149.44		78. 97	155.70	138.33	53. 70	135. (
1867		141.71	35. 16	73.34	156.42	138.97	51.78	130.7
18 <b>6</b> 8	50.64	118.54	30.42	63.45	149.82	133.10	39.36	90. 2
18 <b>69</b>		105.34	32. 40	67. 58	139.92	124.31	46.02	116.5
1870	58, 26	136, 28	45. 36	94.62	146.46	130. 12	37. 92	<b>95</b> . 7
1866-170	55. 68	130.34	36.24	75. 59	149.64	132. 94	45. 78	115. (
1971	<b>5</b> 3. <b>68</b>	125, 66	46. 16	96, 29	134, 28	119. 30	48.98	123.0
1871 1872	52. 14	122.05	45.58	<b>9</b> 5. 68	118.24	105, 95	53.08	134. (
1873	57. 92	135. 58	40, 62	84. 73	113. 28	100.64	66.08	166.
1874		141.34	44. 52	92.87	123. 72	109. 91	72.92	184
1875		155. 81	44.88	93. 62	135. 86	120.70	45. 72	115.4
1871-'75	58. 14	136, 10	44. 36	92. 53	125. 08	111.12	57. 36	144.
1876	55 24	129, 31	49. 82	103.92	134.86	119.81	49.68	125.
1877	47.72	111.70	49.36	102.96	151.64	134. 72	60.12	151.
1878		86.89	34. 62	72. 22	167. 76	149.04	52. 12	131. 6
1879		111. 28	40, 82	85. 15	181.66	161.39	50.14	126.
1880	<b>54.</b> 83	128.35	45. 03	<b>9</b> 3. <b>9</b> 3	163. 53	145. 28	55. 28	139.
1876–'80	48. 49	113. 51	43.93	91.64	159. 89	142.05	53. 47	135. (
1881	62 36	145. 97	42.69	89. ()5	148.50	131, 93	43.50	109. 8
1882	58. 76	137. 55	45.88	<b>95.</b> 70	137. 31	121. 99	46.21	116.6
1883		113. 79	44. 10	91.99	158. 65	140.95	53.93	136, 1
1884	41.14	96.30	35. 31	73.65	142.72	126. 79	38.03	96.
1885	51. 02	119.43	37.43	78. 10	130. 77	116. 18	36. 12	91.
1881–'85	52, 38	122.61	41.08	85, 69	143. 59	127.56	43, 56	110.0

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# Average prices of 100 articles at Hamburg, etc.—Continued.

#### III.—SOUTHERN PRODUCTS—Continued.

Years.	(47) Ol	ive oil.	wine, ex	rench cclusive pagne.	(49) C pag		(43-49)
	Per 100 kilos.	Index No.	Per bectol.	Index No.	Per 100 bottles.	Index No.	total.
1847-'50	Marks. 105.90	100.00	Marks. 27.60	100.00	Marks. 318.56	100.00	100.00
1851	77. 82 96. 42 121. 56 109. 20 100. 62	73.48 91.05 114.79 103.12 95.01	27. 83 28. 60 37. 69 55. 03 77. 00	100. 83 103. 62 136. 56 199. 38 278. 99	305. 39 245. 45 302. 39 301. 26 316. 54	97. 39 94. 22 96. 44 96. 08 100. 95	90.00 95.33 124.78 112.91 142.03
1831–'55	109.32	103. 23	38. 11	138.08	304.06	96. 97	110. 43
1856	94.86 108.30 86,04 91.56 112.92	89. 58 102. 27 81. 25 86. 46 10d. 63	65. 69 79. 71 54. 00 42. 63 59. 39	237. 68 288. 80 195. 65 154. 45 215. 18	321.78 352.97 331.59 332.45 328.47	102.62 112.57 105.75 106.02 104.76	155. 95 169. 32 120. 69 113. 40 120. 36
1856–'60	106. 92	100.96	55.71	201.85	333. 89	106.48	134.72
1861	111.28 107.76 103.98	105. 08 1J1. 76 98. 19 102. 68 98. 47	62. 89 56, 17 52, 11 41, 79 47, 65	227. 86 203. 51 188. 80 151. 41 172. 64	320. 23 329. 97 328. 17 817. 55 328. 20	102. 13 105. 23 104. 66 101. 27 104. 67	122. 08 113. 93 114. 97 109. 41 114. 01
1861-'65	107. 22	101. 25	50. 71	183.73		103.57	
1866	143.46 111.30	124. 14 121. 64 135. 47 105. 10 107. 25	39, 46 46, 45 51, 23 49, 62 42, 92	142. 97 168. 30 185. 62 179. 78 155. 51	359, 51 346, 14 343, 86 347, 19 346, 05	114. 65 110. 39 109. 66 110. 73 110. 36	126, 30 126, 44 120, 75 115, 58 118, 57
1866-70	125. 70	118.70	45. 98	166. 59	348. 12	111. 02	121. 54
1871	89. 70 93. 14	101. 61 96. 45 84. 70 87. 95 93. 18	48. 67 57. 22 64. 08 75. 28 59. 95	176. 84 207. 82 232. 17 272. 75 217. 21	870. 06 368. 51 377. 48 395 74 387. 24	118, 02 117, 52 120, 39 126, 21 123, 50	122. 99 125. 36 132. 15 145. 02 131. 85
1871-'75	98. 26	92. 79	61. 26	221. 93	379. 98	121. 18	131. 50
1876	108.78 110.92	95. 17 102. 72 104. 74 98. 26 97. 45	56. 21 70. 63 77 53 75. 40 97. 67	203. 66 255. 91 280. 91 273. 19 353. 88	387. 30 888. £1 360. 56 369. 40 389. 11	123, 52 124, 00 114, 99 117, 81 124, 09	128. 69 140. 55 134. 34 139. 10 154. 65
1876–'80	105. 55	99. 67	74 41	269. 60	379. 06	120. 89	138 91
1881	93, 59 94, 58 85, 71 91, 29	88. 38 89. 31 80. 93 8 j. 20 87. 87	91. 96 79. 77 83. 33 66 56 70. 41	333 19 289, 02 301, 93 241 16 255, 11	400. 13 389. 96 410. 34 379. 33 372. 62	127, 61 124, 37 130, 86 120, 58 118, 84	146 57 139, 23 142, 38 120, 16 123, 78
1881–'85	91. 54	86. 44	78. 40	284. 06	890. 46	124. 52	134. 81

# Average prices of 100 articles at Hamburg, etc.—Continued. IV.—TROPICAL PRODUCTS (EXCLUSIVE OF COTTON).

_	(50) C	offee.	(51) C	oco <b>a.</b>	(52)	Tea.	(53) Pe	epper.	(54) Pi	mento.
Years.	Per 100 kilos.	Index No.	Per 100 kilos.		Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847-`50	Marks. 74. 16	100, 00	Marks. 64.86	100.00	Marks. 288. 96	100.00	Marks. 55. 08	100.00	Marks. 92. 28	100. (
851	82. 20	110.84	58 02	89. 45	300.00	103. 82	63.00	114. 38	97. 98	106.
852		110.84	64. 20	98 98	273. 42	94. 62	71. 40	129.63	90. 78	104.
853 854.	93. 12 94. 32	125. 57 127. 18	67. 80 67. 74	104. 53 104. 44	296. 40 288 06	102.57 <b>99.69</b>	82. 14 91. 98	149. 13 166 99	. 107. 52 104. 04	116. 112.
855	92. 10	124. 19	92. 10	142. 00	262. 68	90. 91	84. 42	153. 27	95. 58	
1851-'55	88. 80	119. 74	69 96	107. 86	284. 10	98. 32	78. 60	142. 70	100.38	108.
856	95, 70	129. 05	102. 84	158. 56	298. 80	103. 41	96. 84	175. 82	88. 50	95.
857	105. 54	142. 31	164. 94	254. 30	334. 62	115. 80	91. 38	165. 90	79. 44	86.
858	91. 20	122. 98	105. 78	163. 09	280. 02	96. 91	80. 58	146. 30	57. 90	<b>62</b> .
85 <b>9</b>	106. 68 122. 22	143. 85 164. 81	106. 14 129. 30	163. 64 199. 35	335. 16 377. 10	115. 99 130. 50	83. 52 80. 22	151. 63 145. 64	58. <b>6</b> 2 <b>6</b> 2. 28	63. 67.
1856-'60	104. 28	140. 61	121. 80		325. 14	112. 52	'	157. 08	69. 36	75.
861	192 19	100 00	115 50	150 00	1105 50	100 00	75 70	107 47	E0 50	F0
862	123. 12 135. 24	166. 02 182. 36	115. 50 113. 64	178. 08 175. 21	295. 50 333. 96	102. <b>26</b> 115. 57	75. 72   75. 24	137. 47 136. 60	53, 76 55, 56	58. 60.
8 <b>63</b>	141.06	190. 21	113. 82	175. 49	350. 28	121. 22	71.88	130. 50	49. 74	53.
864	138. 78	187. 14	129. 24	199. 26	312.48	108.14	69. 96	127.02	43. 86	47.
865	130. 80	176. 38	119. 64	184. 46	288. 84	99. 96	65. 22	118. 41	47. 28	51.
1861-'65	133. 80	180. 42	118. 38	182. 52	316. 20	109. 43	71. 58	129. 96	50. 04	54.
866		164. 24	132. <b>6</b> 6	204 53	277. 74	96. 11	<b>6</b> 3. 18	114. 71	46. 44	50.
867. <b></b>		147. 01	118. 20	182. 24	341.52	118. 19	87. 11	116.99	37. 80	40.
8 <b>68</b> 8 <b>69</b>		130. 10 133. <b>66</b>	97. 02 94. 62	149. 58 145. 88	338. 0 <u>4</u> 309. 00	116. 99 106. 94	53. 40 83. 52	96. 95 151. 63	42. 66 41. 82	46. 45.
370	100. 56	135. 60	95. 34	146. 99	276. 60	95. 72	95. 76	173. 86	41.82	45.
1866-'70	105.42	142. 15	107. 58	165. 86	308. 58	106. 79	72. 06	130. 83	42. 12	45.
871	111. 79	150. 70	99. 94	154. 09	275. 06	95. 19	110.18	200. 04	39. 82	43.
8 <b>72</b>	146. 24	197. 20	110 82	170.86	294.84	102.03	130. 32	236.60	61. 30	66.
373		239. 19	96. 14	148. 23	280, 20	96. 97	143. 66	<b>26</b> 0. 82	55. 61	60.
37 <b>4</b> 37 <b>5</b>		250. 92 243. 64	98. 88 102. 86	152. 45 158. 59	277. 42 286 22	96. 01 99. 05	135. 96 112. 52	246. 84 204. 28	61. 92 60. 04	67. 65.
1871-'75	1	216. 32	101. 72	156. 83	282. 74	97. 85	126. 52	229. 70	55. 76	60.
3 <b>76</b>	166, 50	224. 51	130. 90	201. 82	279. 22	96, 63	86. 20	156. 50	71. 26	77.
377	172. 18	232. 17		211. 81	238. 16	82. 42	82.96	150.62	78 64	85.
378	149. 42	201. 48	160. 16	246. 93	223. 94	77. 50	70. 70	128. 36	88. 04	95.
87 <b>9</b> 880. <b></b>	136. 22	183. 68	197. 42	301, 38	250. 52	86. 70   82. 08	72. 30 86. 83	131. 25 <sup>1</sup> 157. <b>64</b>	95. 84 85. 70	103. <b>9</b> 2
	l	193. 03		202. 93	237. 17	<del></del> _				
1876–'80		<u>206. 97</u>	<del></del>	233. 58	245. 80	85. 06 	79. 80	144. 88	83. 90	<b>9</b> 0.
81	124.46	167. 83		212. 75	216. 74		105. 77	192. 03	91.79	98.
382		135. 29 · 135. 10	140. 68   158. 77	216. 90 244. 79	214. 77 210. 18	74. 33 72. 74	110. 09 129. 35	199. 87   234. 84	78. 07 <b>6</b> 2. 77	81. 68.
884		134. 61	148. 55	219. 03	212. 66	73. 59	146. 33	265. 67	51. 74	56.
885	91. 20	122. 98	160. 14	246. 90	206. 47	71. 45	152. 50	276 87	49. 19	53.
1881-'85	103 20	139 16	149. 23	230. 08	212. 16	73. 42	128. 81	233. 86	66, 57	72.

# Average prices of 100 articles at Hamburg, ctc.—Continued. IV.—TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

•	(55) C	ascis.	(56)	Rice.	(57)	Sago.	(58) A	rreck.	(59)	Rum.
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per100 kilos.	Index No.	Per 100 kilos.	Index No.
1847'50	Marks. 171. 78	100.00	Marks. 33.66	100. 00	Marks49.56	100.00	Marks. 49. 92	100.00	Marks. 52.14	100. 0
851	202. 02	117.60	27. 18	80. 75	46. 02	92. 86	48. 18	96. 51	52. 38	100.4
1852		127.49	23.40	<b>69.</b> 52	40.02,	80.75	46.98	94. 11	49. 02	94.0
858	232.44 227.40	185. 31 132. 38	31. 68 28. 92	94. 12 85. 92	48. 36 47. 22	97. 58 95. 28	56. 88 64. 68	118. 94 129. 57	68. 18 70. 20	126. 9 134. 6
855	223. 86	130. 32	32. 58	96. 79	53. 22	107. 38	83. 52	167. 31	77. 16	147. 9
1851-'55	220. 92	128. 61	. 28. 74	85. 38	46. 96	94. 79	60.06	120. 81	63.00	120. 8
856	204. 36	118.97	25. 20	74. 87	53. 22	107. 38	81. 60	168. 46	72. 18	138. 4
857	254.46	148. 13	24. 00	<b>7</b> 3. <b>9</b> 8	51.66	104. 24	79. 26	158.77	88. 38	169. 5
858	194.40	113.17	20. 22	60. 07	39. 96	<b>80. 63</b>	53. 34	106.85	62. 70	120. 2
859	163, 88 179, 94	95. 11 104. 75	22. 08 24. 48	65. 60 72. 73	39. 84 41. 23	80. 39 83. 17	45. 12 46. 26	90. 88 92. 67	71. 58 74. 10	187, 2 142. 1
1856-'60	199. 32	116.03	23. 40	69. 52	45. 18	91. 16	61. 14	122. 48	73. 80	141. 5
861	176.84	102, 65	24. 66	73. 26	41. 22	83. 17	56. 22	112.62	71. 10	136. 3
8 <b>6</b> 2	170.94	<b>9</b> 9. 51	23. 34	<b>69</b> . 84	47. 23	<b>95. 28</b>	48. 30	96. 75	<b>5</b> 8. 38	111. 9
8 <b>63</b>	180. 72	105, 20	22. 92	68.09	43.08	86. 92	61. 68	123. 56	60, 42	115. 8
8 <b>64</b>	172. 08 171. 54	100. 17 99. 86	<b>22. 98</b> 24. 78	68. 27 73. 62	45. 24 41. 28	91. 28 83. 29	61. 88 56. 82	122. 96 113. 82	78. 48 68. 04	150. 8 130. 4
1861–'65	174. 30	101.47	23. 76	70. 59^	43. 62	88. 01	56.88	118. 94	67. 26	129. 0
AG6	192. 18	111.88	22. 74	67. 56	37. 74	76. 15	54. 72	109. 62	70. 86	135. 9
906 8 <b>87</b>	204. 60	119, 11	23.88	70. 94	38. 16	77.00	<b>6</b> 0. 96	122. 12	78. 14	140. 2
8 <b>68</b> 5 <b>60</b>		133. 15 151. 76	23. 58   19. 20	70. 05 57. 04	43. 92 43. 56	88. 62 87. 89	67. 80 76. 26	135. 82 152. 76	81. 36 89. <b>4</b> 0	156. 0 171. 4
570	234. 18	136. 33	21. 96	65. 24	87. 32	75. 30	69. 90	140. 02	92. 94	178. 2
1866–'70	224. 10	130. 46	22. 26	66. 13	40. 14	80. 99	65. 94	132.09	81. 54	156. 3
871	213.04	124. 02	22. 36	66. 43	36. 20	73. 04	60. 48	121. 15	81. 78	156. 8
872		104. 54	<b>2</b> 2. 83	67. 80	<b>36. 34</b>	78. 33	54. 96	110.10	<b>R9. 52</b>	171.6
373		90. 78 77. 05	20. 42	60.67	37. 52	75.71	70. 74 88. 00	141.71	100.56	192. 8 204. 8
375	112.83	<b>65.</b> 68	23. 02   19. 30	68, 39 57, 34	40. 52 38. 32	81. 76 77. 32	84. 38	176. 28 169. 03	106. 56 95. 58	183. 8
1871–'75	158. 74	92. 41	21. 58	64. 11	37. 78	76. 23	71. 72	143. 67	94. 80	181. 8
376	102. 50	59. 67	19. 88	59.06	36. 14	72. 92	86. 86	174.00	104. 28	200. (
77	99. 80	58. 10	21. 22	63. 04	39. 68	80.00	87. 94	176.16	108.82	208, 7
378	85. 90 82. 78	50. 01 48. 19	22. 42	66. 61	42.04	84. 83	76. 70 58. 20	153. 65	103. 08	197. 7
579 580	75. 68	44.06	21. 02 19. 82	<b>62.45 58.88</b>	40. 82 86. 88	82. 86 74. 41	66. 67	116, 59 133, 55	98. 22 107. 49	188. 2 206. 1
1876–'80	)	52.00	20. 87	62. 00	39. 11	78. 91	75. 27	150.78	104. 38	200. 1
881	85. 33	49. 67	19.75	58. 67	87. 87	76. 41	57. 76	115.71	111. 82	218. 5
882	74. 57	43. 41	17.84	· 53. 00	88. 78	68. 16	92. 27	184. 84	104.47	200. 8
883	68. 67 63. 67	89. 98 87. 06	19. 25   18. 44	57. 19 54. 78	29. 40 26. 78	59. 82 53. 93	48. 01 73. 02	96, 17 148, 08	112.04 87.40	214. 8 167. 6
886	54. 40	81. 67	17. 37	51. <b>60</b>	26. 78 28. 57	57. 65	<b>67. 38</b>	184. 98	103. 79	199. (
1881–'85	69. 33	40. 36	18. 53	55.05	<b>31. 27</b>	68. 10	67. 87	135. 96	108. 80	199. (

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### PRODUCTION OF THE PRECIOUS METALS.

# Average prices of 100 articles at Hamburg, etc.—Continued. IV.—TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

	(60) To	obacco.	(61) In	digo.	(62) Co	chineal.	(63) Lo	gwood.	(64) Re	dwood.
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847-'50	Marks. 97.44	100.00	<i>Marks</i> . 862, 50	100.00	Marks. 1,026.06	100.00	Marks. 11, 22	100.00	Marks. 25, 80	100, 00
1851 1852 1853 1854	109.38 100.38 113.88 113.88	112, 25 103, 02 116, 87	967. 98 1, 026. 00 1, 103. 40	112.23 118.96 127.93	813.00 793.80 987.48	79. 24 77. 86 96. 24	9.42 10.02 14.28 15.72	83, 96 89, 30 127, 27 140, 11	24. 78 24. 42 25. 44 24. 96	96, 05 94, 65 98, 60
1855	122. 34	116, 87 125, 55	1, 064. 76 1, 103. 34	123.45 127,92	909. 54 871. 14	88. <b>64</b> 84. <b>90</b>	13.74	122.46	26. 46	96. 74 102, 56
1851–'55	111. 96	114.90	1, 053, 12	122.10	874.98	<b>65, 28</b>	12.66	112, 88	25. 20	97. 67
1856 1857 1858 1859	145, 26 155, 34 125, 70 149, 94 144, 18	149. 08 159. 42 129. 00 144. 64 147. 97	1, 103. 40 1, 316. 40 1, 323. 00 1, 325. 10 1, 406. 82	127. 93 152. 63 153. 39 153. 63 163. 11	851. 88 812. 70 815. 76 786. 24 628. 88	83, 02 79, 21 79, 50 76, 63 61, 24	13, 98 12, 18 10, 32 10, 98 12, 06	124, 60 108, 56 91, 98 97, 86 107, 49	26, 58 83, 90 28, 16 25, 26 21, 78	103, 02 131, 40 89, 77 97, 91 84, 42
1856-'60	142. 26	146.00	1, 294, 92	150. 14	778.98	75. 92	11.88	105. 88	26.16	101.40
1861 1862 1863 1864 1865	162. 78 172. 44 136. 02 135. 30 113. 82	167. 06 176. 97 139. 59 136. 85 116. 81	1, 486. 14 1, 628. 64 1, 291. 20 1, 842. 38 1, 303. 08	172. 31 188. 83 149. 70 155. 64 151. 08	618, 96 545, 34 607, 50 726, 60 753, 90	60, 33 53, 15 59, 21 70, 81 73, 48	13. 44 13. 86 12. 06 11. 64 12. 36	119. 79 123. 53 107. 49 103. 74 110. 16	18. 96 17. 10 15. 90 16. 80 18. 78	73. 49 66. 28 61. 63 65. 12 72. 79
1861–'65	144. 06	147. 84	1, 410. 30	163.51	650. 46	63. 39	12.66	112.83	17. 52	67.91
1866	122.04	107. 27 119. 09 125. 25 153. 47 138. 49	1, 460. 64 1, 459. 74 1, 568. 70 1, 734. 13 1, 742. 82	169. 35 169. 25 181. 88 201. 06 202. 07	797. 28 777. 96 875. 88 705. 84 630. 12	77. 70 75. 82 85. 36 68. 79 61. 41	13. 88 10. 62 13. 38 15. 42 13. 02	119, 25 94, 05 119, 25 137, 43 116, 04	20. 40 21. 72 24. 84 21. 36 16. 68	79. 07 84. 19 96. 28 82. 79 64. 65
1866–'70	123, 48	126. 72	1, 593. 18	184.72	757.44	73. 82	13, 14	117.11	21.00	81.40
1871	164. 02 148. 32	142. 96 168. 83 152. 22 152. 11 146. 28	1, 630. 88 1, 617. 84 1, 418. 00 1, 476. 18 1, 451. 38	189. 09 187. 58 164. 40 171. 15 168. 28	622. 94 553. 28 567. 14 524. 52 466. 98	60. 71 53. 92 55. 27 51. 12 43. 51	13. 20 14. 28 14. 24 13. 18 16. 40	117. 65 127. 27 126. 92 117. 47 146. 17	15. 42 14. 02 14. 78 22. 12 20. 18	59, 77 54, 34 57, 20 85, 74 78, 22
1871-'75	148.48	152.38	1, 518. 86	176. 10	546. 98	53. 31	14. 26	127. 09	17. 30	67. 03
1876 1877 1878 1879	147. 92 141. 78 134. 54 126. 84 136. 45	151.83 145.50 138.07 130.17 140.03	1, 303. 34 1, 314. 30 1, 250. 22 1, 246. 72 1, 304. 74	151. 11 152. 38 146. 00 144. 55 151. 27	508. 84 569. 28 523. 16 576. 52 508. 36	49. 59 55. 48 50. 99 56. 19 58. 32	15. 58 14. 82 13. 76 14. 54 14. 66	138. 86 132. 09 122. 64 129. 59 130. 66	16. 66 15. 68 15. 86 16. 72 19. 66	64. 57 60. 78 61. 47 64. 81 76. 20
1876-'80	137. 51	141. 12	1, 285. 66	140.06	555, 23	54. 11	14.67	130. 75	16, 92	65. 58
1881	130. 42 116. 29 112. 26 128. 54 125. 41	133, 85 119, 35 115, 20 126, 79 128, 70	1, 393. 25 1, 362. 34 1, 303. 29 1, 223. 93 1, 089. 80	161. 54 157. 95 151. 10 141. 90 126. 35	489. 30 355. 80 265. 48 250. 38 316. 40	42, 81 34, 69 25, 58 24, 40 80, 84	13. 75 14. 13 13. 35 13. 45 12. 63	122. 55 125. 94 118. 98 119. 88 112. 57	17. 09 15. 56 14. 95 13. 81 11. 14	66, 24 60, 27 57, 95 51, 56 48, 18
1881-'85	121. 58	124 77	1, 274. 52	147. 77	325.'49	3L.72	13.45	119.96	14.41	55. 85

## PRODUCTION OF THE PRECIOUS METALS.

# Average prices of 100 articles at Hamburg, etc.—Continued. IV.—TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

	(65) Ma	hogany.	(68)	Cane.	(67) Ps	lm-oil.	(88) I <sub>7</sub>	ory.	
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	(50–68) Total.
1847'50	Marks. 21.90	100.00	Marks. 30.96	100.00	Marks. 65.48	100.00	Marks. 919. 26	100.00	100.00
1851		110.50 110.50	32.82 32.58	106, 01 105, 23	56. 82 58. 38	86. 80 89. 18	909. 78 975. 18	98.97 106.08	99. 94 99. 95
1853		107.67	36. 06	116.47	72.60	110.91	1, 122, 66	122, 13	115. 28
1854	24.00	109.59	31.56	101.94	95, 88	146.47	1, 218, 90	132.60	118.17
1855	19.56	<b>89. 32</b>	83.00	106, 59	85. 74	<b>130. 98</b>	1, 835. 84	145. 82	121.02
1851-'55	23. 52	107.40	<b>33.</b> 18	107.17	73. 86	112.83	1, 112.46	121.02	110.97
1856	23. 88	109, 44	36.00	116, 28	81, 60	124.66	1, 893, 86	151.63	123. 95
1857	28.02	127, 95	53.84	172, 29	89. 22	136, 30	1, 648. 38	179.32	140. 82
1858		93.97	49.14	158. 72	76, 82	116.59	1, 439. 10	156, 55	112.76
18 <b>59</b> 1 <b>860</b>	23. 76 27. 12	105. 49 123. 84	41.40 87.74	133, 72 121, 90	88. 46 80. 46	127.50 122.91	1, 891. 16 1, 372. 26	151, 33 149, 28	115.74 120.28
1856-'60	24.66	112.60	43. 50	140.50	82, 20	125. 57	1, 448. 94	157, 62	122. 61
	====	======				====			<del></del>
1861		107, 12	<b>86.96</b>	119.88	81.12	123, 92	1, 223, 16	188.06	117. 19
1802		88, 22 126, 58	42, 24 53, 28	136.48 172.09	75. 54 64. 82	115.38 98.23	1, 257. 54 1, 240. 92	186, 80 134, 99	117. 28 116. 87
1864		189.86	58.44	188.76	72, 86	110.54	1, 503. 24	163.53	125. 74
1805	27.96	127.67	53. 52	172.87	72. 24	110.36	1, 280. 04	139. 25	146. 11
1861-'65	28.02	127. 95	48.90	157.95	73.14	111.73	1, 800. 98	141.52	118.64
1866	26, 40	120.55	50.82	164.15	77.40	118.24	1,411.62	153.56	117.90
1867	19.86	90.68	41.76	184.88	80.16	122, 46	1, 349. 76	146.83	114, 35
1868	10.90	72, 88 67, <b>9</b> 5	44.04 43.44	142.25 140.31	82.08 83.04	125, 39 126, 86	1, 848, 46 1, 851, 14	146.15 146.98	116, 75 122, 10
1870		101.92	44.64	144 19	79.08	120.81	1, 364. 16	148.40	120. 56
1866–'70	19.86	90, 68	44.94	145, 16	80. 84	<b>122.73</b>	1, 864. 04	148.88	118. 32
1871	20, 70	94. 52	43.00	138, 89	103.08	157, 47	1, 273. 34	138, 52	120, 22
1872	27.18	124.11	55. 12	178.04	79.10	116.25	1, 510.88	164.86	130. 25
1873	25.78	117.72	59.82	193. 22	74. 24	118.41	1, 878. 20	204.82	134. 82
1874 1875	22, 32 20, 22	101. 92 92, 83	<b>59</b> , 22 <b>56</b> , 58	191.28 182.75	70.80 70.30	108, 16 107, 39	1, 819.66 2, 021.96	197.95 219.95	136, 74 132, 11
1871-'75.		106. 12	54. 74	176. 81	78.90	120. 53	1, 700. 80	185.02	130. 72
						<del></del>			====
1876	22, 76	103.93	50.56	163.81	73.96	112.99	1.897.82	206, 45	129.74
1877	ZI. 74	<b>99.</b> 27 86, 21	52.60 49.24	169.90 159.04	77.72 77.86	118.73 118.18	1, 775. 60 1, 852. 88	193. 16 201. 56	130, 29 125, 61
1879		85, 39	47.54	153, 56	<b>6</b> 8, <b>6</b> 6	104.89	1, 530. 90	166.54	123. 34
1880	20.66	94, 34	54. 73	176.78	65. 19	99.59	1, 496.00	162. 74	122.92
1876–'80	20. 55	93. 84	50.93	164, 50	72, 58	110.88	7, 710. 64	186,09	126, 38
1881	19.91	90.91	55.47	179.17	63.04	96. 80	1, 615, 50	175, 74	122.60
1882	21.52	98.26	56.42	182, 24	68, 64	97. 22	1, 748, 77	190.24	122.47
1883	22.89	102, 24	56.09	181.17	69.15	105.61	1, 858. 18	202.13	120.17
1883 1884 1885	16.02	79.45 73.15	51.42 53.27	166.09 172.06	65.90 54,54	100.67 83.32	1, 920. <b>69</b> 1, 790. 43	208.94 194.77	117.90 116.39
1881-'85		88, 81	54, 53	176. 13	63, 25	96. 62	1, 786. 70	194, 36	119.91

### V.—MINERALS AND METALS.

	(69) (	Coal.	(70) P	g iron.	(71) B	ar iron.	(72)	Steel	(73)	Leed.
Years.	Per 1000 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847-'50	<b>Marks.</b> 15. 73	100.00	Marks.	100. 00	Marks. 19.80	100.00	<b>Marks.</b> 53. 82	100. 00	Marks. 36.48	100.0
1851	18. 81	87. 79	5. 58	75.00	16. 02	80. 91	49. 20	91. 42	36. 78	100.8
852	13.78	87. 60	5.82	78. 23	16.62	82.94	55. 38	102.90	33. 18	90. 9
853		113. 86	7.92	106.45	22. 20	112.12	48. 12	89. 41	42. 22	117. 1
854	20. 65 19. 00	131. 28 120. 79	10. 44 9. 48	140.82 127.42	25. 88 22. 74	128. 18 114. 85	61. 92 77. 64	115. 50 144. 26	47. 16 51. 54	12 <b>9</b> . 2 141. 2
1851–'55	16.95	107. 76	7.86	105. 65	20. 58	103. 94	58. 44	108. 58	42.30	115.9
					===	===				
856		119. 89 114. 24	9. 18 8. 82	123. 39 118. <b>5</b> 5	24. 12 24. 00	121. 82 121. 21	70. 02 <b>69</b> . 00	130. 10 128. 21	47. 64 40. 68	130, 50 127, 90
858		100. 32	6. 90	92.74	20. 28	102.42	60.60	112.60	41.22	112.9
859	15, 68	<b>99.</b> 36	6. 54	87. 90	20. 28	102.42	58. 14	108.03	41.28	121.3
.860	15. 18	96. 50	6. 54	<b>87. 9</b> 0	19. 50	98.48	55, 20	102.58	42.42	116.2
1856–'60	16.65	105.85	<b>7. 6</b> 2	102. 42	21. 66	109. 39	62. 58	116. 28	44.46	121.8
861	15.98	101. 27	6.18	83.06	18. 42	93. 03	55. 86	103.79	41.64	114. 1
<b>862</b>		101. 91	6. 30	84.68	18.84	95. 15	58. 02	107. 80	39. 78	16 <b>9</b> . 0
863	15.08 16.11	95. 87 102. <b>4</b> 2	7. 82 7. 56	98.39	19. 50	98. 48 111. 82	67. 56 58. 62	125. 53 108. <b>9</b> 2	<b>89.66</b> 40.98	108.7 112.3
865	16. 35	103. 94	7.38	101. 61 99. 19	22. 14 21. 54	108.79	58.50	108. 70	39. 06	107.0
1861-'65	15. 91	101. 14	6.96	93. 55	20. 10	101. 52	59. 70	110. 93	40. 20	110. 2
866	16. 81	103.69	7.08	95. 16	21.00	106, 06	54. 90	102. 01	40.92	112.1
967	16.02	101.84	6.96	93. 56	20. 22	102.12	47. 52	88. 29	38.16	104. d
8 <b>68</b> 8 <b>69</b>		<b>99</b> . 05 <b>9</b> 6. 19	6. <b>7</b> 2 6. <b>6</b> 0	90, 32 88, 71	18.72	94. 55 93. 64	48. 00 48. 54	89. 19 90. 19	40.56 39.60	1 i l . l 108. 5
870	15. 16	<b>9</b> 6. 38	6. 96	93. 55	18. 54 19. 68	90. 30	49. 29	91. 42	40.98	1123
1866-70	15. 60	99. 17	6.84	91. 94	19.62	99. 00	49. 62	92. 20	40.02	109. 7
871	15, 55	98. 86	7. 26	97. 58	21.82	107. 68	58.36	108. 44	39. 30	107. 7
872	21.78	188. 14	12.54	168.56	27. 60	139. 30	66. 32	123. 23	53.70	147. 2
87 <b>3</b>		174. 57	14.36	193. 01	84. 24	172.98	57.12	106. 13 83. 83	63. U8 45. 08	17 <b>2.</b> 0 12 <b>3.</b> 5
87 <b>4</b> 87 <b>5</b>		140. <b>9</b> 4 11 <b>4.</b> 88	10. 26 8. 20	137. 90 110. 22	22. 48 23. 62	113. <b>54</b> 19. <b>2</b> 0	45. 12 39. 62	73. <b>6</b> 2	50. 22	137. 6
1871-75	20.65	131. 28	10. 52	141.40	25. 86	130. <b>G</b> 1	53. 80	99.03	50. 28	137. 8
876	16. 56	105. 28	8.08	108. 60	20. 53	103. 64	54.42	10L 11	47. 92	131. 8
877 878	15.40	97. 90	7. 18	<b>96</b> . 51	18.72	94.55	48. 20	89. 56	44. 12	120. 9
878 87 <b>9</b>	13. <b>9</b> 5 13. 10	88. 68 83. 28	6.40 5.72	86. 02 76. 88	17. 48 15. 76	88, 28 79, 60	46. 06 37. 66	85. 56 <b>6</b> 9. 97	40. 92 37. 30	112.1 102.2
880		83. <b>6</b> 6	6.54	87. 90	16. 55	83. 59	87.77	70. 18	37.01	101. 4
. 1876–'80	14. 35	91.23	6.78	91. 13	17. 81	89. 95	44. 82	83. 28	41.45	113. 6
<b>8</b> 81		80. 55	5. 94	79. 84	16.01	80.86	87. 15	69. 03	31. 15	<b>85.</b> 3
882		80. 48	6.30	83. 83	17. 58	88.79	36. 88	68. 52	80.34	88. 1
.888		80. <b>4</b> 2 79. 59	5. 96 5. 77	80. 11 77. 55	16.81 15.18	82.87 76.67	84. 87 37. 08	64. 79 68. 89	28.78 25.08	78, 8 68, 7
1885		78. 26	5. 14	69.09	14 26	72.02	84.41	63. 94	25. 89	70. 9
1881-'85	12.56	79.85	5, 80	77.96	15. 87	80.15	36.08	67.04	28. 25	77.4

#### V.—MINERALS AND METALS—Continued.

	(74) 2	Zino.	(75)	Tin.	(76) C	opper.	(77) Quic	ksilver.	(78) Su	lphur, w.
Years.	Per 109 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847-'50	Marks. 31, 98	100. 00	Mar.ks. 160. 20	100. 00	Marks. 171. 96	100. 00	Marks. 836. 28	100. 00	Marks. 18. 88	100.00
1851		93. 24	160. 98	100.49	173. 58	100. 94	735. 60	87. 98	14.82	110.70
1852 1853	33. 42 42 06	107. <b>5</b> 3 135. <b>3</b> 8	174. 18 246. 84	108. 73 154. 08	183. 42 223. 26	106.66 129.83	620. 22 499. 80	7 <b>4.</b> 16 5 <b>9.</b> 76	13. 38 13. 02	100. 00 97. 8
1854	42. 28	142.47	237. 24	148. 09	232. 50	135, 21	436, 86	52. 24	<b>10.62</b>	<b>79.</b> 3°
1856	45. 17	145. 37	231. 30	144. 38	232. 80	135. 38	400. 32	47. 87	11. 10	82. 9
1851-'55	38. 76	124.71	210. 12	131. 16	209. 10	121. 60	538. 44	64. 39	12.60	94, 1
1856	49. 92	157. 72	266, 22	166. 18	240. 24	139.71	387. 12	46. 29	10.56	78. 9
1857 1858		191.85 150.58	297.84	185. 92	228. 54	132.90	417.54	<b>49. 9</b> 3 <b>48. 79</b>	18. 54 16. 44	188.5
1859	41.76	134. 36	244.38 273.48	152. 55 170. 71	205. 50 193. 68	119.50 112.03	408, 00 386, 70	46. 24	17.04	122. 8 127. 3
1860	39.78	127. 99	276. 78	172.77	204. 18	118.74	443. 34	53.01	20.40	152.4
1856–'60	46. 80	150. 58	271.74	16 <b>9. 6</b> 3	214. 44	124. 70	408. 54	48. 85	16. 62	124. 2
1961	36. 00	115.83	245. 16	153. 08	192. 00	111.65	435.48	52. 07	15. 60	116. 59
1862	33. 76	115.06	238. 62	148.95	189. 12	109. 98	444.06	53. 10	13. 80	103, 14
1663	35. 76 48. 14	115, 06 138, 80	259. 44 222. 96	161. <b>95</b> 13 <b>9</b> . 18	178.62 194.88	103, 87 113, 83	434.88 513.36	52. 00 61. 39	12. 36 14. 70	<b>92.</b> 38 10 <b>9</b> . 87
1865	41. 94	134. 94	198. 48	123 90	178. 20	103. 63	447. 30	53. 49	13. 50	100. 90
1861-'65	38. 52	123. 94	232. 92	145. 39	186. 54	108.48	455. 04	54. 41	13. 98	104. 48
1866		141.12	179.88	112.28	187. 02	108.76	422.82	50. 56	13.62	101.78
1867	43. 08	138. 61	186, 06	116. 14	167.82	97. 59	447. 68	53. 53	12.72	<b>95</b> . 07
1868 1869	40. 20 41. 40	129.34 133.20	192. 90 241. 74	120. 41 150. <b>9</b> 0	153. 72 155. 52	89. 39 90. 44	417.06 447.54	49. 87 53. 42	12. <b>9</b> 0 14. 58	96. 41 108. 97
1870	38. 70	124. 71	257. 88	160. 97	151. 14	87. 8 <b>9</b>	491.70	<b>59</b> . 15	15. 00	112.1
1866-'70	41.46	133. 40	211.68	132. 18	163. 02	94. 80	445. 98	53. 33	18. 74	102.66
1871	35. 90	115. 51	276. 46	172.57	155. 58	90.47	608. 42	72, 16	13. 42	100. 30
1872		147. 68	311.42	194. 39	190. 02	110.50	720. 18	86. 12	12. 78	95, 52
1878	55. 64 46. 08	179. 02 148. 26	297. 54 212. 78	185. 73 132. 82	191, 50 177, 76	111. <b>86</b> 103. <b>37</b>	840. 68 1,803.30	101. 24 155. 87	11. 56   13. 80	86. 40 103. 14
1875	48. 14	154. 89	198. 64	124.00	183. 12	106.49	786. 50	94. 05	13. 78	102. 9
1871-75	46. 34	149. 10	259. 86	161. 90	179.60	104.44	852.06	101.89	13, 06	97.6
1876		163. 77	184. 50	115. 17	181.60	105. 61	698. 98	83. 58	12. 00	89. 60
1877	44.74	<b>143. 9</b> 5	163.38	101. <b>9</b> 8	171.14	<b>99</b> . 52	543. 30	64. 97	11.86	<b>88.</b> 64
1 <b>8</b> 78 1 <b>8</b> 79	45. 70. 34. 24	147. 04 110. 17	146. 32 146. 90	91.34 91.70	151.63 135.84	88. 17 79. 00	450. 14 406. 20	53. 83 48. 57	12. 82 9. 42	92.08 70.4(
1880	39. 85	128. 22	178. 42	111. 27	131. 82	76. <b>66</b>	434. 09	51. 91	11.83	88. 42
1876–'80	43. 09	138. 64	163. 90	102. 31	154.40	£9. 79	508. 54	60. 57	11.49	85. 87
l <b>8</b> 81		110.80	187. 84	117. 25	135. 15	78. 59	413. 43	49. 44	12.45	93. 05
1882	36. 88	117.05	199.87	124.76	143. 2 <b>3</b>	83. 29	403.63	48. 27	13.85	99. 78
1883 1884	36. 43 34. 25	117. 21 110. 20	198, 16 179, 75	123. 70 112. 20	136. 18 124. 84	79. 16 72. <b>6</b> 0	354. 63   374. 47	42. 41 44. 78	11.77 11.24	87. 97 84. 01
1885	25. 14	80. 89	168. 53	105. 20	110.92	64. 50	-875. 19	44. 86	13.70	102. 39
1881-'85	38. 70	108. 43	186. 83	116.62	130.05	<b>75. 6</b> 3	384. 27	45. 95	12.50	.93.42

#### V.-MINERALS AND METALS-Continued.

	(79) Sa raw,	ltpeter, Chili.	(80)	Salt.	(81)	Lime.	(82) C	ement.	
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	(69–82) Total
1847-`50	Marks. 25.62	100.00	Marks. 4.50	100.00	Marks. 3.24	100. 00	Marks. 4.62	100.00	100. 0
1851		107. 73	4. 02	89. 33	<b>3. 0</b> 0	92. 59	5, 58	120.78	95.7
1852		114.75 132.79	3. 00 3. 48	66, 67 77, 33	8, 00 2, 82	92. 59 87. 04	5, 82 5, 40	125. 97 116, 88	95.7 109 2
1854		132.08	3. 18	70.67	3.00	92.59	5. 82	125. 97	115.9
1855		177.52	3. 18	70.67	8. 00	92. 59	5. 64	122. 08	119.
1851-'55	84.08	133.02	3, 36	74. 67	2.94	90. 74	5. 64	1:2.08	107. 0
1856	30. 84	120. 37	8, 78	84.00	3, 00	92. 59	5. 64	122, 08	116. (
1857	35.40	138. 17	4.08	90,67	3.00	92.59	5. 70	123, 38	124, 5
1858		116. 39	3. 78	84. 00	3. 00	92. 59	5. 46	118.18	109, 0
185 <b>9</b>		107. 49 100. 23	3, 90 3, 60	86, 67 80, 00	3. 36 3, 24	103. 70 100. 00	5. 16 5. 28	111.69	108.
•				<u> </u>	<b> </b>			114. 29	108.6
1856-'60	29, 88	116, 63	3, 84	85. 33	3. 12	96. 30	5. 46	118, 18	113, 5
1861		92.74	3, 72	82.67	3.18	98. 15	5. 34	115. 58	102, 4
1862		108.20	3.66	81.33	3.12	96. 30	5. 16	111.69	101.
1863		104. 45 114. 29	3. 24 2. 16	72.00 48.00	3. 30 3. 12	101. 85 96. 30	5, 10 4, 86	110, 39 105, 19	102.1
1865		97.42	1.98	44.00	3.00	92.59	4. 92	106.49	98.
1861–'65	26, 52	103. 51	2, 94	65. 33	3. 12	96. 30	5. 10	110.39	102.1
1866	23. 10	90. 16	1.74	38. 67	2. 76	85, 19	4. 80	103.90	96. 5
1867	21.72	84. 78	1.74	38.67	2.70	83, 33	4, 98	107, 79	93.
1868		94.38	2.10	46.67	2.52	77.78	4,44	96, 10	91.1
1869	30.36 31.38	118, 50 122, 48	1. 92 2. 40	42. 67 53. 83	2. 58 2. 82	79. 63 87. 04	4. 32 4, 38	93, 51 94, 81	96. 3 99. (
1866-'70	26, 16	102.11	1.98	44.00	2. 70	83. 33	4. 56	98. 70	95, 4
1871	31.08	121. 31	2. 94	65. 33	2, 40	74. 07	4.34	93. 94	101.
1872	29.68	115.85	2. 74	60.89	2.40	74.07	4. 68	101. 30	121. (
1873		113.04	3.64	80.89	5.04	155.56	6, 26	135.50	140.
1874		93. 52 90. 32	3. 64 2. 82	80. 89 62. 67	3. 12 3. 32	96. 30 102, 47	5. 54 5. 14	119.91 111.26	116. 107.
					ļ <del></del>				
1871-'75	=:==	106. 79	3. 16	70. 22	3. 26	100.62	4.80	103, 90	116.
1876		90. 24	3. 16	70. 22	3.58	110.49	5.04	109.09	106,
1877		108.35	2.82	62.67	3.46	106.79	4.98	107. 79	98.
1878		116. 16 110. 38	2. 53 2. 26	56.00 50.22	3. 58 3. 40	110. 49 104. 94	4.72 4.74	102, 16 102, 60	94. 1 84. 2
1880		118.97	2. 27	50.44	2. 82	87.04	4.47	96. 75	88.
1876–'80	27. 88	108, 82	2.61	58, 00	3. 37	104, 01	4. 79	103.68	94.3
1881	28, 70	112, 02	2. 10	46.67	2.68	82. 72	4. 43	95. 89	84. 6
1882 . <b></b>	26.07	101/76	2, 27	50.44	3.12	96.30	4, 25	91.99	86,
1883		87.81	2.09	46.44	3. 02	93. 21	4.48	96, 97	83.
18 <b>84</b>		75. 14 79. 93	1.97	43. 78 88. 67	8. 04 2. 52	93. 83 77. 78	4.33 4.19	93, 72	78.
								90.69	74, 2
1881-'85	. 23.87	91.22	2.03	45.11	2.88	88.89	4, 34	93, 94	81.

#### VI.—TEXTILE MATERIALS.

	(83) C	lotton.	(84)	Wool.	(85)	Flax.	(86) E	lemp.
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847–'50	Morks. 111. 36	100.00	Marks. 860. 24	100.00	Marks. 94. 80	100.00	Marks. 71.82	100, 00
1851	110, 16 90, 60	95. 53 90. 14 98. 92 81. 86 81. 57	383. 58 366. 60 357. 00 377. 64 343. 68	106, 48 101, 77 99, 10 104, 83 95, 40	118. 20 116. 22 79. 68 74. 64 73. 92	124. 68 122. 50 84. 05 78. 73 77. 97	75. 60 76, 02 73, 02 101. 22 78. 36	105, 26 105, 86 101, 67 140, 94 109, 11
1851-'55	90.66	89. 49	365. 70	101. 52	92. 52	97.59	80. 82	112. 53
1856	126. 86 116. 28 109. 68	97. 74 113. 47 104. 42 98. 49 91. 92	894. 38 435. 72 407. 28 416. 40 482. 80	109. 48 120. 95 113. 06 115. 59 120. 00	85. 74 106. 02 112. 20 110. 46 134. 64	90. 44 111. 84 118. 35 116. 52 142. 03	68, 58 70, 88 60, 78 60, 42 64, 92	95. 49 97. 99 84. 69 84. 13 90. 86
1856-'60	112.68	110. 19	417. 24	115, 82	109, 80	115. 82	65, 04	90. 50
1861 1862 1868 1864 1865	236, 64 874, 16	115. 80 219. 50 885. 99 891. 54 210. 24	887. 66 417. 00 899. 24 834. 20 850. 88	107. 61 115. 76 110. 83 92. 77 99. 07	139. 80 142. 26 157. 80 185. 80 105. 60	147. 47 150. 06 166. 46 142. 72 111. 39	64. 08 66. 18 77. 94 75. 42 50. 64	89. 22 92. 15 108. 52 105. 01 78. 80
1861-'65	281.88	253. 12	879. 02	105, 21	136.14	143.61	68.04	94.74
1806	155, 52 192, 48	285. 40 181. 47 189. 66 172. 84 154. 47	831. 14 296. 88 812. 78 287. 84 804. 44	91. 92 82. 41 86. 83 79. 76 84. 51	169, 82 168, 80 167, 82 162, 54 151, 56	178. 61 177. 53 177. 03 171. 46 159. 87	68, 70 66, 96 75, 90 78, 42 70, 08	95. 60 93. 23 105. 68 109. 19 97. 58
1866-70	196, 86	176. 78	806, 48	85.08	163.92	172.91	72.00	100. 23
1871	167. 22 153. 64 148. 10	182.51 150.16 137.97 182.99 117.98	\$28. 02 387. 38 340. 68 301. 22 313. 90	91.06 107.53 94.57 83.62 87.14	131, 62 128, 44 114, 32 115, 30 125, 88	138. 84 135. 49 120. 50 121. 62 132. 78	80. 70 77. 28 72. 68 79. 40 72. 50	112.86 107.60 101.20 110.55 100.95
1571-'75	149.58	184, 82	834, 24	92, 78	123.12	129.87	76. 52	106, 54
1876	111.24 113,34	99. 75 100. 13 99. 89 101. 78 100. 91	270. 42 278. 76 802. 28 287. 08 284. 75	75. 07 75. 90 83. 91 79. 69 79. 04	119. 03 142. 66 122, 52 145. 52 90. 37	125, 55 150, 49 129, 24 153, 50 95, 33	68, 42 73, 60 62, 66 50, 66 57, 09	95. 27 102. 48 87. 25 78. 89 79. 40
1876–'80		102, 29	283.66	78. 74	124.02	130. 82	63. 69	88, 68
1881 1882 1883 1884	111.78 101.00 102.91	98, 98 100, 88 90, 10 92, 41 91, 97	288, 48 260, 59 245, 47 200, 72 202, 48	80. 08 72. 84 68. 14 55. 72 56. 21	120. 47 111. 90 121. 51 138. 86 148. 20	127. 08 118. 04 128. 18 146. 48 156. 33	60. 16 59. 72 60. 85 64. 99 62. 52	83. 76 83. 15 84. 7: 90. 45 87. 0:
1881–'85	105.67	94, 89	239, 55	66. 50	128. 19	135, 22	61.65	85. 84

#### VI.—TEXTILE MATERIALS—Continued.

	(87) 8	lik.	( <b>88</b> ) Co	ordage.	(89) 1	Rags.	
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	(83-89) Total.
1847–'50	Marks. 3, 863, 64	100. 00	<b>Marks</b> . 64. 08	100. 00	Marks. 80. 60	100.00	100. 00
1851	<b>8, 990.</b> 00	98. 71 95. 20 101. 72 34. 68 81. 17	67. 02 73. 20 67. 14 102. 00 108. 60	104. 59 114. 23 104. 78 159. 18 169. 48	29. 22 82. 22 86. 66 40. 32 88. 78	95. 49 105. 29 119. 80 131. 76 110. 39	104. 24 105. 01 101. 41 111. 00 103. 56
1851–'55	8, 565. 98	92. 30	83. 58	180. 43	84. 44	112.55	105.20
1856	2, 884. 68 3, 815. 04 3, 408. 00 8, 758. 04 8, 771. 60	74. 66 98. 74 88. 21 97. 27 97. 62	77. 40 78. 84 70. 62 71. 16 70. 98	120. 79 123. 03 110. 21 111. 05 110. 77	84. 14 86. 48 82. 52 83. 60 83. 18	111.57 119.22 106.27 109.80 108.43	100, 02 112, 16 108, 56 104, 66 108, 74
1856-'60	8, 527. 46	91. 30	73. 80	115.17	83. 96	110.98	107. 15
1861	8, 594, 36 3, 666, 12	91. 17 75. 40 93. 03 94. 89 102. 42	70. 56 79. 92 85. 56 77. 88 72. 42	110. 11 124. 72 133. 52 121. 54 113. 01	35, 22 30, 48 35, 04 40, 20 33, 54	115. 10 99. 61 114. 51 131. 37 109. 61	110. 8: 124. 31 151. 8: 154. 2: 117. 8:
1861–'65	8, 580. 64	91.38	77. 28	120. 60	34. 92	114. 12	131.83
1866	4, 187. 84 4, 942. 14 5, 148. 72 4, 968. 78 4, 540. 08	127. 91 133. 26	74. 28 79. 80 84. 78 82. 44 79. 44	115. 92 124. 53 182. 80 128. 65 123. 97	86. 72 88. 28 85. 34 87. 68 37. 38	120.00 125.10 115.49 123.14 122.16	184. 94 180. 31 127. 18 130. 52 122. 87
1866-'70	4, 747. 50	122. 88	80. 16	125. 09	87. 68	121. 18	129. 17
1871		117. 45 129. 67 129. 74 97. 94 86. 32	82. 58 84. 36 93. 16 89. 42 90. 14	128. 87 131. 63 145. 38 189. 54 140. 67	84. 74 29. 82 82. 92 81. 62 85. 92	118. 58 97. 45 107. 58 108. 38 114. 44	119, 23 122, 79 119, 56 112, 80 111, 47
1871-75	4, 335. 94	112. 22	87. 94	137. 23	32. 82	107. 25	117. 17
1876	3, 415. 48 2, 800. 84	102. 08 109. 09 88. 40 74. 82 86. 97	85. 14 79. 96 81. 46 69. 46 77. 10	182. 87 124. 78 127. 12 108. 40 120. 46	33. 10 29. 18 80. 76 28. 84 82. 89	108. 17 95. 86 100. 52 94. 25 105. 85	105. 54 108. 33 102. 38 98. 76 96. 72
1876–'90	3, 565. 08	92. 27	78. 64	122.72	30. 85	100. 82	102. 31
1881	8, 026. 54 8, 826. 14 8, 092. 54	82. 54 78. 33 86. 09 80. 04 75. 13	74. 32 74. 82 75. 73 78. 03 77. 65	115. 98 115. 98 118. 18 121. 77 121. 18	82. 62 29. 83 29. 23 28. 28 25. 51	106, 60 97, 45 96, 52 92, 25 88, 87	99, 21 95, 10 95, 95 97, 02 95, 89
1881-'85	8, 107: 89	80. 48	78. 01	118.62	29.08	96.03	96. 66

## PRODUCTION OF THE PRECIOUS METALS.

## Average prices of 100 articles at Hamburg, etc.—Continued.

#### VII.—MISCELLANEOUS ARTICLES.

_	(90) G	uano.		lia-rub- er.	(92) Gu ch	tta-per- a.	(93) Rosin.	
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847-'50	Marks. 19. 62	100.00	Marks. 205, 62	100.00	Marks. 193. 44	100.00	<b>Marks</b> . 8. 70	100. 00
1851		107.08	889. 58	146. 67	172.98	89.42	8. 82	101.3
1852 1853		96, 94 108, 26	283, 20 892, 04	106. <b>6</b> 2 147. 59	176. 58 215. 34	91. 28 111. 32	7. 80 10. 20	89. <b>6</b> 117. <b>2</b>
1854	23.88	121.71	893. 12	148.00	244. 88	126, 33	10.86	124. 8
1856	28. 40	119. 27	272. 28	102. 51	170. 64	88. 21	9. 48	108.9
1851–'55	21. 72	110.70	846, 02	130. 27	195, 96	101.30	9.42	108. 2
1856	23, 34	118.96	228, 60	86, 06	173, 04	89, 45	9, 06	104. 1
1867	26. 52	135. 17	228. 12	85, 88	202.02	104.44	10.56	121.8
1856		125. 08 110. 70	222.42 407.34	83. 74 153. 35	169. 02 305. 70	87. 38 158. 03	9. 66 10. 02	111. 00 115. 1
1866	24. 30	123. 85	452.70	170. 43	<b>304.</b> 32	157. 32	9. 54	109. 6
1856-'60	24.06	122. 68	307.86	115. 90	230. 82	119. 32	9. 78	112.4
1861	22.86	116.51	295, 26	111.16	273. 60	141.44	15, 18	174. 4
1862 1863		131. 19	837. 02	126, 88	284. 52	147. 08	41.76	480.0
18 <b>64</b>	24. 12 23. 46	122.94 119.57	314.94 268.32	118. <b>57</b> 101. 02	3 <b>6</b> 3. <b>9</b> 0 438. <b>9</b> 6	188. 12 226. 92	47. 16 52. 62	542, 0 604, 8
1865	24. 36	124. 16	274. 14	103. 21	336. 48	178. <b>9</b> 5	26.04	<b>299</b> . 3
1861–'65	24. 12	122.94	297. 96	112.18	339. 48	175. 50	36. 54	420.0
18 <b>96</b>	23, 46	119. 57	892.76	147. 87	250. 26	129. 37	17.76	204. 1
1867	20. 28	103. 36	331. 92	124. 96	292. 92	151. 43	17.46	200. 0
18 <b>6</b> 8 18 <b>69</b>	20.70 24,12	105. 50 122. 94	350. 84 267. 84	131. 90 100. 84	274. 44 197. 28	141.87 101.99	12. 84 10. 98	147. 5 126. 2
1870		109.79	848.06	131.04	866. 18	189.30	11.84	130.3
1866-70	22.02	112.28	<b>83</b> 8. 16	127.31	276. 24	142.80	14, 10	162.0
1871	28.44	119.47	885, 64	145. 18	310.42	160.47	17. 26	198, 3
1872	24. 60	125.38	488.54	165.10	301.12	155.67	19. 20	220.6
1873 1874		73. 50 72. 68	406, 50 882, 12	153. 04 125. 04	810, <b>92</b> 296, 92	160. 73 153. 49	16, 52 18, 54	189. 8 155. 6
1875		65. 95	818.14	119.77	225. 50	116.57	11.86	130.5
1871-'75	17.94	91.44	<b>376.</b> 18	141.62	288. 98	149. 39	15. 58	179.0
1876	15, 32	78. 08	824, 48	122, 16	845, 22	178.46	11.46	131. 7
187 <b>7</b>	12.74	64. 93	296. 41	111. 60	404. 26	208.98	11.62	183.5
18 <b>7</b> 8		74.81 57.80	309, 70 361, 50	116.60 136.10	412.52 335.52	213. 25 173. 45	10, 28 9, 46	118. 1 108. 7
1880		61.31	500. 51	188. 43	289. 66	149.74	10.80	124. 1
1876–'80	13. 20	67. 28	858. 53	134.98	357.44	184. 78	10.72	123. 2
1681	11.88	60.55	425.76	160. 29	314. 35	162, 50	12. 26	140. 9
1 <b>882</b>	15.94	81. 24	455.84	171.48	290. 86	150.86	12, 10	139. 0
18 <b>63</b> 18 <b>84</b>	14. 04 11. 99	71.56 61.11	485. 10 863. 29	182. 63 136. 77	274. 90 288. 35	142.11 149.06	10. 51 8. <b>66</b>	120. 8 <b>99</b> . 5
1885		56. 42	<b>368.</b> 20	138. 62	261. 60	135. 24	8.06	92, 6
1881–' <b>8</b> 5	12.98	66. 16	419.54	157. 95	286. 01	147.85	10.82	118.0

### VII.-MISCELLANEOUS ARTICLES-Continued.

Years.	(94) P prussia chrom	otash, to and ate of.	( <b>9</b> 5) I	Pitch.		otash, nate of	(97) 8	Soda.
<b></b>	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.
1847–'50	Marks. 175. 92	100. 00	Marks. 16. 82	100. 00	Marks. 59. 28	100. 00	Marks. 20. 14	100. 0
851	139. 70	79. 41	22. 80	139. 71	51.78	87. 35	18.42	91.4
853		78. 53 85. 65	21. 60 18. 72	132.85 114.71	45. 42 49. 03	76. 62 82. 69	17. 62 18. 08	87. 41 89. 7
874		82. 98	23.64	144. 85	63. 48	107. 09	17. 30	85. 9
855	149. 29	84. 86	22. 50	137. 87	66.96	112.96	J6. 67	82.7
1851–'55	145. 28	82. 55	21. 84	133, 82	55. 32	93. 32	17. 58	87. 2
856	168. 38	95. 71	17. 22	105. 51	67. 68	114.17	18. 15	90. 1
857	173.47	98. 61	16.'32	100. <b>0</b> 0	75. 96	128. 14	22.30	110.7
858 859		94. 52 116, 51	16. 26	99. <b>63</b> 116. 18	52.74	88. 97	21.49	106.7
.860		108.53	18.96 16.62	101. 84	55. 26 48. 48	93. 22 81. 78	21. 12 18. 58	104. 8 92. 2
1856-'60	181. 65	103. 26	17. 10	104. 78	60. 00	101. 21	20.40	101. 2
861	166, 15	94. 45	22. 98	140, 81	54, 42	91, 80	16.75	82. 1
802		81.41	87. 50	229. 78	55. 80	94. 13	15. 22	75. 5
863		84. 83	38. 34	234. 98	57.06	96. 25	14.75	73. 2
864	135. 93 119. 40	77. 27 67. 87	31. 86 20. 10	195. 22 123. 16	52. 80 52. 38	89. 07 88. <b>36</b>	14.77 15.57	73. 3 77. 3
1861-'65	142. 65	81. 09	!	184. 93	54. 48	91.90	·	76.3
866	120, 95	68. 75	19. 50	119.49	45. 12	76.11	19.46	96. 6
867	107.40	61. 05	16.92	103.68	45, 18	76. 21	18. 15	90. 1
868		63. 18	15.60	95. 59	45. 60	76. 92	14.80	78.4
869 870		61. 06 60. 33	20. 22 24. 36	123. 90 149. 26	46. 86 52. 56	79. 05 88. 66	14. 10 13. 32	70. ( <b>6</b> 6. 1
1866-'70	109. 32	62. 14	19. 32	118. 38	47. 04	79. 35	15. 84	78. 6
871	141. 28	80.31	17. 54	107. 48	56. 02	94. 50	16.32	81. C
871	194. 34	110.47	20.94	128.31	61. 86	104.85	25. 08	124. 5
873		103. 28	21.96	134. 56	66. 22	111.71	19.57	97. 1
874  875	118.82	77. 58 <b>6</b> 7. 54	24. 70 21. 96	151.35 134.56	55. 78 52. 10	94. 09 87. 89	17. 08 15. 16	84. 8 75. 2
1871–'75	150. 52	85. 56	21. 42	181. 25	58.40	9R. 52	18. 56	92. 1
876	99. 22	56.40	18.06	110.66	50. 52	85. 23	15, 96	79. 2
877	95. 05	54.03	18.06	110.66	47.46	80.06	14. 52	72. 1
1878 1970		50. 48 66. 14	17.62	107. 97	43.64	73. 62	12.65	62. 8
879  880	118.33	67. 26	14. 88 16. 62	91. 18 101. 84	36. 16 36. 89	61. 00 61. <b>39</b>	12.09 13.10	<b>6</b> 0. 0
1876–'80	102. 17	58. 08	17. 05	104.47	42. 83	72. 25	13.70	68. 0
1881	<u></u>	68. 24	15. 78	96. 69	<b>39</b> . 10	65. 96	12.05	59. 8
1882		78. 72	19. 53	119.67	42. 82	72. 23	11.89	59. c
8 <b>83</b>	111.34	<b>63</b> . 29	17. 88	109.56	40.71	68. 67	11.06	54. 9
884  885		<b>42.</b> 80 <b>56.</b> 82	17. 81 11. 88	109. 13 <b>69. 7</b> 8	38. 49 84. 59	64. 93 58. 35	10. 42 8. 85	51.7 43.8
1881-'85	107. 11	<b>60. 89</b>	16.48	100.98	89. 14	<b>66.</b> 02	10.85	58. 8

#### PRODUCTION OF THE PRECIOUS METALS.

# Average prices of 100 articles at Hamburg, etc.—Continued.

#### VII.—MISCELLANEOUS ARTICLES—Continued.

•	(98) T	Callow iles.	(99)	Tar.	(100)	Wax.	(90, 100)
Years.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	Per 100 kilos.	Index No.	( <b>90–</b> 100) Total.
1847-'50	Marks. 216.60	100.00	Marks. 18. 86	100.00	Marks. 268. 08	100.00	100. 00
1851	208. 20 237. 18	88. 84 81. 96 96. 12 109. 50 111. 16	13. 62 12. 42 12. 00 20. 64 20. 22	98. 27 89. 61 86. 58 148. 92 145. 89	806. 18 800. 00 813. 44 304. 98 298. 80	114. 21 111. 91 116. 92 113. 76 111. 46	108. 96 95. 09 105. 17 119. 44 109. 63
1831-'55	212. 52	98. 12	15. 78	113, 85	304_68	113.65	106.65
1856	217. 86 205. 14	98. 34 100. 58 94. 71 97. 92 97. 45	12. 24 12. 18 11. 76 13. 50 16. 62	88. 31 87. 88 84. 85 97. 40 119. 91	807. 44 309. 00 821. 96 289. 32 327, 48	114. 68 115. 26 120. 10 107. 92 122. 16	100. 50 108. 01 99. 70 115. 57 116. 83
1856–'60	211. 86	97. 81	13. 26	95. 67	811.04	116.03	108. 21
1861	203. 10 190. 56 167. 22 145. 38 144. 48	93. 77 87. 98 77. 20 67. 12 66. 70	22. 08 24. 06 18. 18 14. 70 12. 66	159. 31 173. 59 131. 17 106. 06 91. 34	292. 92 266. 22 283. 26 342. 90 811. 70	109. 27 99. 31 105. 66 127. 91 116. 27	119. 65 156. 99 161. 86 162. 58 121. 06
1861–'65	170. 16	78. 56	18.36	132.47	299, 40	111.68	144. 89
1866	157. 62 154. 20	71. 19 72. 02 72. 77 71. 19 68. 75	11. 22 11. 70 12. 60 14. 10 15. 90	80. 95 84. 41 90. 91 101. 75 114. 72	295. 62 825. 80 805. 64 824. 80 808. 22	110. 27 121. 53 114. 01 120. 97 114. 97	111. 80 108. 13 101. 26 98. 17 111. 21
1866-'70	154. 20	71. 19	13.08	94. 87	311.94	116. 36	105. 90
1871	148.98	68. 85 66. 95 68. 78 68. 76 64. 03	16. 42 18. 90 20. 34 20. 32 18. 04	118. 47 136 36 146. 75 146. 61 130. 16	816.66 204.14 190.80 279.48 251.60	118, 12 76, 15 71, 17 104, 25 93, 85	117. 48 128. 54 119. 14 112. 21 98. 74
1871–'75	146.14	67.47	18. 80	135. 64	248.54	92.71	114. 98
1876	138. 24 138. 98 132. 16 126. 14	63, 82 64, 16 61, 02 58, 24 52, 69	17. 14 16. 66 14. 46 14. 62 14. 63	123. 67 120. 20 104. 33 105. 48 105. 56	241. 70 207. 74 233. 36 198. 74 187. 88	90, 16 77, 49 87, 05 74, 13 70, 08	101. 78 99. 80 97. 24 90. 21 95. 23
1876–'80	129. 93	59. 99	15. 50	111. 83	213. 88	79. 78	96. 79
1881	110. <b>42</b> 118. <b>60</b>	50, 77 50, 98 54, 76 55, 33 53, 66	14.60 15.18 15.16 12.73 17.78	105. 34 109. 52 109. 88 91. 85 127. 92	194. 86 168. 46 191. 65 190. 92 164. 93	72. 69 62. 84 71. 49 71. 22 61. 52	94, 89 99, 10 95, 38 84, 82 81, 35
1881–'85	115.01	53. 10	15.08	108, 83	182, 16	67. 95	91. 11

Average prices of 14 British manufactured articles of export during the period from 1851 to 1885, compared to the average prices of the years 1847-'50, with the corresponding index numbers, ascertained from the values declared for the British trade statistics.

#### COTTON MANUFACTURES.

	(1) Co	otton rn.	(2) Piec pls	e goods, in.	(3) Piec prin	e goods, ted.	(4) Sto	ekinga ocka.	(5) The	ead for ing.
<b>Үеага</b> .	Per pound.	Index No.	Per yard.	Index No.	Per yard.	Index No.	Per dos. pairs.	Index No.	Per pound.	Index No.
1847-'50	d. 11. 20	100.00	d. 3. 10	100. 00	d. 4. 37	100.00	<b>2.</b> 7. 85	100.00	e. 1. 89	100, 60
1861	11.06	98.75	2.92	94. 19	4. 26	97.48	7. 80	99. 36	2,07	109.52
1852	10.98	98.04	2.91	93. 87	4. 22	96. 57	7. 14	90.96	2. 20	116.40
1858 1854	11. 22 10. 92	100.18 97.50	3. 08 2. 85	• 99. 35 91. 94	4. 31 4. 20	98. 68 96, 11	6. 82 6. 35	86, 88 80, 89	2. 27 2. 27	120. 11 120. 11
1855	10.44	93. 21	2.79	90.00	4.01	91.76	6.66	84. 84	2.29	121.16
1851-'55	10.92	97. 50	2. 91	93. 87	4. 20	96.11	6. 95	88. 54	2. 22	117.46
1866	10. 62	94. 82	2. 88	92. 90	4.00	92. 91	6.11	77. 83	2.17	114.81
1857		105.45	2.90	96. 45	4. 18	95. 65	5. 24	66.75	2.25	119.05
1858 1859.	11.49 11.81	102. 59 105. 45	2. 90 3. 07	93, 55 99, 03	4. 07 4. 23	93. 14 96. 80	6. 43 5. 75	81. 91 73. 25	2. 33 2. 45	123.28 129.63
1860	12.00	107. 14	3.09	99.68	4. 21	26. 84	5. 93	75. 54	2. 35	124.34
1866–160	11. 55	103. 12	2. 99	96. 45	4. 15	94. 97	5. 89	75. 03	. 2.31	122. 22
1861	12. 54	111.96	3. 02	97. 42	4.11	94, 05	5, 65	71. 97	2. 25	119.05
1862		142.59	8. 66	118.06	4. 57	104. 58	6. 36	81. 02	2.71	143. 39
1868 1864	26. 01 28. 80	232, 23 257, 14	4. 97 5. 79	160. 32 186. 77	5. 71 6. 32	130. 66 144. 62	6. 98 8. 15	88. 92 103. 82	3. 37 3. 58	178. 81 189. 42
1865	23. 98	214. 11	5. 05	162. 90	5. 81	132. 95	7.84	99. 87	8. 26	172.49
1861-'65	21. 46	191.61	4. 50	145. 16	5. 80	121. 28	7.00	89, 17	8. 03	160. 32
1866		211. 25	5. 09	164. 19	5. 91	135. 24	8. 32	105. 99	3. 36	177.78
1867	21.11	188.48	4. 13	183. 23	5. 28	120. 82	7.08	89. 94	3.43	181.48
1868 1869		180. 98 178. 93	3. 67 3. 79	118.39 122.26	4.83 4.91	110. 53 112. 36	6. 63 6. 82	84. 46 86. 88	3. 37 3. 36	178.31 177.78
1870		168. 93	3. 55	114. 52	4. 75	108. 70	6. 79	86. 50	8. 32	175. 66
1866-'70	20. 80	185. 71	4.05	130. 65	5. 14	117. 62	7. 12	90.70	3. 37	178. 31
1871	18. 66	166. 61	3. 33	107. 42	4.71	107. 78	6.50	82. 80	3. 26	172.42
1872	18.87	168.48	3.51	113.23	4.92	112.59	7.08	90. 19	3.48	184. 13
1873		158. 57 140. <b>9</b> 8	3. 45	111.29 103.87	4.78	109.38	7.40	94. 27	3.54	187. 30 186. 77
1874 1875		130. 89	3. 22 3. 13	100. 97	4. 69 4. 77	107. 32 109. 15	7. 09 6. 72	90. 32 85. <b>61</b>	3. 53 3. 66	198.65
1871-'75		153, 13	3. 33	107. 42	4.77	109. 15	6. 96	88. 66	3. 49	184. 66
1876	13. 19	117.77	2. 83	91. 20	4.48	102. 52	6. 59	83. 95	3.66.	193. 65
1877	12.85	114.73	2. 83	91. 29	4. 31	98. 63	6. 23	79. 86	3, 22	170.37
1878		111.34	2.76	80. C3	4. 18	95. 65	6.48	82. 55	8. 15	166. 57
1879 1880	12.33 13.25	110.09 118.30	2. 65 2. 73	85. 48 88. 06	3. 91 3. 79	89. 47 86. 73	6. 66 6. 5.5	84. 84 83. 44	3.13	165. 61 167. 72
1876–'80	12. 82	114.46	2.70	89. 03	4. 13	94. 51	6. 50	82. 80	8. 27	173.02
1881	19 20	110. 62	2. (-5	85. 48	3, 08	84. 21	5, 82	74. 14	2.99	158. 20
1882		110.63	2.71	87. 42	3. 08	85. 35	6. 21	79. 11	3.10	164, 02
1888	12. 25	109. 37	2.61	84. 19	3. 62	82. 84	6. 28	80.00	3.27	173 02
1884 1885.	12. 24 11. 58	109. 29 103. 39	2. 47 2. 33	79. 68 75. 16	3. 60 3. 47	82. 88 79. 41	6. 25 6. 00	79. 62 76. 43	8. 37 3. 15	178.31 166.67
		<u> </u>			<b> </b>		<u> </u>	<b></b>		
1881-'85	12, 28	109.64	2.55	82, 26	8. 62	82.84	6.11	77. 83	2.18	168, 25

## PRODUCTION OF THE PRECIOUS METALS.

# Average prives of 14 British manufactured articles, etc.—Continued.

#### COTTON MANUFACTURES-Continued.

	(6) Glad mon b	ss, com- ottles.	(7) Line	en yarn.	(8) Line	n, plain.	(9) Lin cloth ar	en sail d sails.	(10) Woo worste	olen and d yarn.
<b>Ү</b> еага.	Per cwt.	Index No.	Per pound.	Index No.	Per yard.	Index No.	Per yard.	Index No.	Per pound.	Index No.
1847-'50	\$. 11.60	100.00	d. 11. 05	100.00	d. 7. 00	100.00	d. 9. 24	100. 00	d. 23. 37	100.00
1851		91.38	12.12	109. 68	7. 02	100.29	8.91	96.75	24. 29	103.94
1852		90.17	11.44 12.11	103. 53 109. 59	6. 92 7. 65	98. 86 109. 29	8, 97 10, 85	97.08 117.42	24. 14 25. 04	108, <b>29</b> 107, 15
185 <b>4</b>	11. 42	93. 53 98. 45	12. 11	115. 93	7. 91	113.00	12. 24	182.47	23. 70	101. 67
1855	10.89	93. 88	12. 32	111.49	7.59	108, 43	10.85	117. 42	22. 90	97. 09
1851–'55	10.84	93. 45	12.16	110.05	7.42	106.00	10.87	112. 23	24. 03	102. 82
1856	11.07	95. 43	13, 05	118. 10	7.17	102. 43	10. 95	118. 51	24. 69	103. 65
1857	11.07	95. 43	13. 71	124.07	7. 35	105, 00	10. 46	113. 20	27. 60	118. 10
1858	11.11	95. 78	13.08	118.37	7. 34 7. 27	104.86 103.86	10. 45 11. 56	113. 10 125. 11	28. 58 31. 30	122, 29 133, 98
1859	10. 54 10. 30	90. 86 88. 79	14. 73 13. 85	133.30 125.34	7. 22	103. 14	10. 98	118.83	32.46	138. <b>9</b> 0
1856–'60	10.82	93. 28	13. C8	123. 80	7. 27	103.86	10. 88	117. 73	28. 93	123. 80
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1861	10. 16 10. 08	87. 59 86. 90	13. 91 13. 65	125.88 123.58	7. 16 6 84	102. 29 97. 71	11. 89 12. 28	128. 68 132. 90	30. 13 82. 47	128. 93 138. 94
1863	10.08	87.76	15. 80	142.99	7. 55	107.86	12. 58	130. 15	36. <b>9</b> 2	157. 98
1864	10.01	86. 29	17. 90	161.99	8. 39	119.86	13.67	147. 94	40.80	172.44
1865	9. 97	85. 95	16.54	149. 68	8.06	115.14	12. 73	137. 77	40.81	172.49
1861–'65	10.08	86. 90	15. 56	140.81	7. 60	108. 57	12.63	136.69	86. 08	154. 17
1866		87. 33	16. 95	153. 89	8. 23	117. 57	12. 75	137. 99	41.06	175.70
1867		86.03	17. 29	156.47	7. 79 7. 50	111. 29 107. 14	12.88 13.39	139.39 144.91	37. 28 34. 78	159. 52 148. 82
1868		85. 60 85. <b>4</b> 3	16. 91 16. 19	153. 03 146. 52	7.06	100.86	14. 20	153.68	35. 74	152. <b>9</b> 3
1870		86. 12	14.42	130. 50	7. 15	102.14	12. 65	136.90	33. 73	<b>-144.</b> 83
1866-'70	9. 99	86. 12	16.35	147.96	7. 55	107. 86	13.17	142.53	36. 52	150. 27
1871	9. 71	83. 71	14. 69	132. 94	7. 39	105. 57	12.94	140.04	33. 49	143, 80
1872	9.81	84. 57	16.40	148. 42	7.43	106. 14	14. 29	154, 65	36.91	157. <b>94</b>
1873	10. 18 10. 41	87. 76 89. 74	16.51 15.17	149. 41 137. 29	7. 62 7. 80	108.86 111.43	13.97 14.41	151. 19 155. 95	37. 26 38. 14	159. 44 163, 20
1875	11.08	95. 52	15. 95	144.84	7. 59	108. 43	14. 86	155.41	38. 58	165. 08
1871-'73		88. 28	15. 74	142.44	7. 57	108. 14	13. 99	151. 41	36.88	157.81
				===			====	·		[ <del></del>
1876 1877		96. 12 94. 74	15. 62 16. 13	141.86 145.97	7. 14 6. 93	102.00 99.00	14. 37 18. 71	155. 52 148. 38	34. 36 32. 12	147. 03 137. 44
1878 187 <b>9</b>		92.83	15. 76	142.62	7. 20	102.86	12.96	140. 26	30.07	128.67
187 <b>9</b>		87. 93 87. 07	14.82 14.25	134. 12 128. 96	7. 08 7. 38	101. 14 105. 43	11. 69 12. 15	126. 52 181. 49	26. 71 30. 83	114. 29 129. 78
						<b> </b> -			·	
1876–'80		91. 64	15. 32	138. 64	7. 15	102.14	12.98	140. 48	·	131. 45
1881		85. 52	13.91	125.88	7.03	100.43	12.01	129.98	26. 04 25. 62	111.42 109.63
1882		82.33 79.91	13. 71 14. 86	124.07 129 95	6, 89 6, 95	98. <u>43</u> 99. 29	12. 44 11. 73	134. 03 126. 95	23. 41	100. 0
1884	9. 30	80.17	13. 95	126. 24	6. 62	94. 57	10.95	118.51	23. 78	101. 75
1885	9. 57	82, 50	14. 26	129.05	6. 35	90. 71	10, 83	117.21	24. 19	103. 51
1881–'85	9. 52	82.07	14.04	127.06	6. 77	96. 71	11. 59	125.43	24.61	105. 31

# Average prices of 14 British manufactured articles, etc.—Continued. WOOLEN AND WORSTED MANUFACTURES.

Years.	(11) Clo	ths, etc.		annels,	(13) W etu		(14) C: et		(1–14)
	Per yard.	Index No.	Per yard.	Index No.	Per yard.	Index No.	Per yard.	Index No.	Total.
1847–'50	d. 29. 24	100. 00	d. 14. 92	100. 00	d. 11. 98	100. 00	d. 32.42	100.00	100.00
851		84. 88	14.15	94.84	9. 83	82. 05	<b>35.</b> 28	108. 82	97. 98
852		83. 99 89. 26	13. 91 14. 62	93. 23 97. 99	9. 26 10. 52	77. 30 87. 81	82. 56 29. 60	100, 43 91, 30	95, 98 100. 61
1664		83. 55	13. 18	88. 34	10.06	83. 97	29. 03	89. 54	99. 53
855	26. 30	89. 95	15. 25	102, 21	9. 50	79. 80	30. 52	94. 14	96. 27
1851-'55	25. 24	86. 32	14. 22	95. 81	9. 83	82. 05	31. 40	96. 85	98. 47
856	24. 34	83, 24	14.76	98. 93	10.07	84.06	32. 22	99. 38	98. 50
1857	24. 34	83. 24	16.01	107. 31	10. 28	85, 81	· <b>33.</b> 06	101.97	101. 25
<b>85</b> 8		88. 54 99. 49	15. 21 15. 85	101. 94 102. 88	10. 42 11. 02	86. 98 91. <b>9</b> 9	28. 00 30. 88	86, 37 95, 25	100. 91 105. 77
.860		103. 01	15. 74	105. 50	11. 32	94. 49	81.55	97. 32	105. 60
1856-'60	26.76	91. 52	15. 41	103, 28	10.62	88. <b>6</b> 5	31.14	96. 05	102.41
861	29. 81	101. 95	17. 80	119. 30	11.99	100, 08	30.01	92. 57	105. 80
.802	30. 36	103. 83	18.64	124. 93	12. 98	108. 35	29, 95	· <b>92.</b> 38	114.2
.863		117. 24	19.59	131. 80 133. 51	12. 07 13. 84	100.75	31.09	95. 90	133. 45
.864		125. 65 128. 93	19. <b>9</b> 2 19. 55	181. 03	13. 76	115. 53 114. 86	34. 50 36. 00	106. 42 111. 04	146. 53 137. H
1861-'65		115. 53	19. 10	128. 03	12. 93	107. 93	32 31	99. 66	127. 56
866	39. 15	133. 89	19. 24	128. 95	14. 04	117. 20	88. 45	118.60	140.36
867	· 40. 99	140.18	18. 54 18. 17	124. 26 121. 78	14. 54 13. 99	121. 37 116. 78	<b>89.</b> 62	122. 21	133. 91
862	36. 66 36. 37	125, 38 124, 88	17.68	118.50	13. 88	121. 20	<b>85.</b> 50 <b>86. 4</b> 5	109. 78 112. 43	127. 50 128. 1
870	35, 17	120. 28	17. 28	115. 82	14. 03	117. 11	35. 67	110.02	122.6
1866-'70	37.67	128. 83	18, 18	121. 85	14. 22	118.70	37. 16	114.62	130. 5
871	87.52	128. 32	17. 55	117.63	14.02	117.03	86. 10	111.85	122.6
872	41. 19	140.87	17.65	118.30	14.54	121. 37	<b>38. 93</b>	120.08	130.07
878	41.00 89.53	140. 22 135. 19	18. 10 19. 76	121.31 132.44	12. 11 10. 93	101.09 91.24	88. 64 88, 60	119. 19 119. 06	124, 51 128, 0
875	89.09	133.69	18. 47	123.79	10.64	88. 81	87.00	114.13	124. 9
1871-'75	39. 67	135. 67	18. 31	122, 73	12.45	103.92	37. 85	116.75	126. 4
876	38. 25	130, 81	17. 52	117.48	9, 90		34.75	107, 19	119.2
877	85.72	122.16	17.58	117.83	9.52	79.47	81.52	97.22	114.0
<b>678</b>	34.53 31.89	118.09 109.06	16. 86 16. 59	113.00	9. 28 8. 90	77.46 74.29	80. 44 28. 83	93, 69 88, 93	111.0 105.9
879	32. 34	110.60	16. 45	110.25	9. 15	76. 38	29. 16	89. 94	108, 1
1876–'80	34.55	118. 16	17. 90	113.94	9. 35	78. 05	30.94	95.43	111.7
881	32, 55	111.82	15.18	101.74	9.04	75.46	28.78	88.77	103.0
882	84.18 88.80	116.89 130.98	15. 13 14. 82	101.41 99.33	9, 65 9, 94	80. 55 82. 97	28, 14 28, 24	86.80 87.11	104.7 104.7
883		141.66	13.98	93.70	9. 64	80.47	26. 24 26. 16	80.69	103. 2
885	40. 23	137.59	13.08	87.67	9. 35	78, 05	25. 74	79.40	100.4
1881-'85	87.84	127.70	14.44	96.78	9. 52	79.47	27.41	84, 55	103. 2

Index numbers of the average prices of the 114 articles, and of each of the 8 groups of articles, during the period from 1851 to 1885, compared to the average prices of the years 1847–250.

Years.	Products of agriculture, etc.	Animal and fish products.	Southern products, etc.	Tropical prod- ucts.	Minerals and metals.	Textile mate- rials.	Miscellaneous	British arti- cles of export.	Total.
1847-'50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1851	99. 02 110. 71 128. 18 150. 49 158. 82	110. 38 106. 68 114. 94 121. 12 123. 54	90. 00 95. 33 124. 78 112. 91 142. 03	99. 94 99. 95 115. 28 118. 17 121. 02	95. 70 95. 76 109. 24 115. 95 119. 10	104. 39 105. 01 101. 43 111. 64 103. 58	103. 98 95. 09 105. 17 119. 44 109. 63	97. 98 95. 98 100. 61 99. 53 98. 27	100. 21 101. 60 113. 60 121. 24 124. 22
1851-'55	129. 99	114. 79	110. 43	110.97	107. 03	105. 20	106.65	98. 47	112. 2
1856	149. 03 138. 11 119. 92 119. 48 133. 75	127. 61 140. 18 127. 02 130. 69 133. 75	155. 95 169. 32 120. 69 113. 40 120. 36	123. 95 140. 32 112. 76 115. 74 120. 28	116. 65 124. 58 109. 04 108. 57 108. 66	100. 02 112. 18 103. 59 104. 69 108. 74	100. 50 108. 01 99. 70 115. 57 116. 83	98. 50 101. 25 100. 91 105. 77 105. 60	123, 27 130, 11 113, 53 116, 34 120, 90
1856 - '60	131. 84	132.31	134. 72	122.61	113. 59	107.12	108. 21	102.41	120. 9
19 <b>6</b> 1	131. 46 126. 80 120. 12 117. 89 126. 48	124. 79 127. 19 124. 12 129. 21 135. 23	122. 08 118. 93 114. 97 109. 41 114. 01	117. 19 117. 28 116. 87 125. 74 116. 11	102. 40 101. 88 102. 92 104. 53 98. 93	110. 85 124. 31 151. 84 154. 26 117. 80	119.65 156.99 161.36 162.58 121.06	105. 84 114. 22 133. 45 146. 53 137. 80	118. 10 122. 60 125. 40 129. 20 122. 60
1861-'65	124. 46	128. 24	114. 13	118.64	102.11	131. 83	144. 33	127. 56	123. 5
1866		135. 64 132. 68 133. 48 143. 25 139. 32	126. 30 126. 44 120. 75 115. 58 118. 57	117. 90 114. 35 116. 75 122. 10 120. 56	96. 54 93. 28 91. 76 96. 33 99. 68	134. 94 180. 81 127. 18 130. 52 122. 87	111. 30 108. 13 101. 25 98. 17 111. 21	140. 36 133. 91 127. 56 128. 15 122. 68	125. 85 124. 44 121. 91 123. 35 122. 87
1866-'70	137. 74	136. 35	121. 54	118. 82	95. 47	129. 17	105. 90	130. 55	123. 5
1871	144. 76 144. 17 146. 21 150. 99	144. 14 155. 82 156. 72 157. 76 158. 59	122. 99 125. 36 132. 15 145. 02 131. 85	120. 22 130. 25 134. 82 136. 74 132. 11	101. 85 121. 63 140. 60 116. 70 107. 40	119. 23 122. 79 119. 58 112. 80 111. 47	117. 48 128. 54 119. 14 112. 21 98. 74	122. 64 130. 07 128. 52 126. 06 124. 96	127. 0: 135. 6: 138. 2: 136. 2: 129. 8:
1871-75		154. 57	131. 50	130, 72	116.90	117.17	114.98	126.44	133. 2
1876	145. 34 132. 50 132. 92	155. 79 152. 51 141. 53 137. 60 147. 30	128. 69 140. 55 134. 84 189. 10 154. 65	129. 74 130. 29 125. 61 123. 34 122. 92	196. 27 98. 87 94. 14 84. 28 88. 83	105. 54 108. 33 102. 33 98. 76 96. 72	101. 78 99. 80 97. 24 90. 21 95. 28	119, 23 114, 04 111, 03 105, 93 108, 15	128, 3; 127, 7( 120, 6( 117, 1( 121, 8)
1876-'80	138. 12	146. 76	188. 91	126. 38	94. 35	102. 83	96. 79	111.70	123.0
1881	137. 50 138. 45 143. 33 123. 85	151. 21 155. 17 156. 40 150. 28 140. 45	146. 57 139. 23 142. 38 120. 16 123. 78	122.60 122.47 120.17 117.90 116.39	84. 87 86. 99 82. 93 78. 69 74. 23	99. 29 95. 10 95. 93 97. 02 95. 89	94. 89 99. 10 95. 38 84. 82 81. 35	103. 08 104. 72 104. 72 103. 36 100. 48	121. 0' 122. 14 122. 24 114. 21 108. 7
1881-'85	130.77	150.65	184.41	119.91	81.55	96. 65	91.11	103, 28	117.6

#### NOTES TO THE TABLES OF AVERAGE PRICES.

Wheat.—The average yearly price during the period 1851-'85 varied from 31.20 marks in 1855 to 15.33 in 1885. The average price for periods of five years varied between 23.72 marks in the years 1871-'75 and 15.68 marks in the years 1881-'85. The price in 1885 was lower by 4.11 marks (21 per cent.) than in the years 1847-'50. It was lower by 8.39 marks (35 per cent.) than in the years 1871-'75.

Bye.—The price varied from 23.28 marks in 1855 to 12.21 marks in 1885. The five-year period price varied from 18.18 marks in 1866-'70 to 15.30 marks in 1881-'85. The price in 1885 was lower by 0.03 marks (‡ per cent.) than in 1847-'50, and was lower

by 5.35 marks (30 per cent.) than in 1871-75.

Potatoes.—The price varied from 7.90 marks in 1879 to 3.69 marks in 1858. The five-year period price varied from 7.51 marks in 1876-'80 to 5.31 marks in 1856-'60. The price in 1885 was lower by 0.08 marks (1 per cent.) than in 1847-'50, and was lower by 1.19 marks (18 per cent.) than in 1871-'75. When the potato crop is poor, an increase in the import of Indian corn for the manufacture of spirits prevents an excessive rise in

the price of potatoes.

Hops.—No commodity shows such enormous fluctuations in price as hops. The price varied from 464.23 marks in 1883 to 119.16 in 1858. The five-year period price varied from 319 marks in 1881–85, to 167.88 marks in 1856–60. The price in 1885 was higher by 128.35 marks (143 per cent.) than in 1847–60, and it was lower by 86.57 marks (28 per cent.) than in 1871–75. The investigations of Imperial Bureau of Statists show that the average price of ordinary hops, net weight, in Nürnborg was 550.83 marks in 1883, and in 1885 was 104.17 marks. The general rise in the price of hops during the last two decades is ascribed chiefly to the great increase in the consumption of beer. Yet the cultivation of hops has greatly extended. The increase in the production of hops in Germany, from 1874 to 1883, was from 250,000 to 400,000 hundredweight: the increase in all countries was from 900,000 to 1,570,000 hundred weight.

Rape-seed oil.—The price varied from 106.86 in 1855 to 54.09 marks in 1885. The five-year period price varied from 84.66 marks in 1856-'60 to 61.34 marks in 1881-'85. The price in 1885 was lower by 18.45 marks (25 per cent.) than in 1847-'50, and by 16.15

marks (23 per cent.) than in 1871-'75.

Raw sugar.—The price varied from 72.98 in 1871 to 26.59 in 1885. The five-year period price varied from 59.10 marks in 1856-'60 to 41.95 in 1881-'85. The price in 1885 was lower by 19.07 marks (42 per cent.) than in 1847-'50, and lower by 28.19 marks (51 per cent.) than in 1871-'75. The production of sugar has undergone a remarkable change since 1850, as is indicated by the fact that sugar formerly played an important part among tropical products, whereas it is now reckoned as one of the products of European agriculture. At present, the most important factor for the price of sugar is not the state of the crop in the West Indies, Brazil, and Java, but the extent of the best culture, and the methods of taxing sugar, in Germany, Austria, and France. Apart from temporary rises in price in 1856, 1857, and 1871, which were mainly the result of speculation, the average price of sugar remained fairly constant until 1883. In 1884 and 1885 a great fall in price set in, which is generally explained as due to an overproduction of sugar. The production of sugar in Germany rose from 1,265,000 double hundred weight in 1860 to 11,230,000 in 1884-'85.

Spirits from Indian corn or potatoes.—The price varied from 70.25 marks in 1855 to 33.23 marks in 1885; the five-year period price varied from 58.11 in 1851-755 to 39.72 in 1881-785. The price in 1885 was higher by 1.66 marks (5 per cent.) than in 1847-750, but lower by 10.17 marks (23 per cent.) than in 1871-775. The price depends chiefly upon the potato crop, but is also affected more or less by speculation. Considerable improvements in production have led to an increase of the output and a fall in prices. A poor potato crop is offset, as has already been noted, by an increased use of Indian

corn.

Beef.—The price varied from 1.25 marks in 1877 to 0.58 marks in 1852; the five-year period price from 1.22 marks in 1876–'80 to 0.65 marks in 1851–'55. The price in 1885 was higher by 0.36 marks (50 per cent.) than in 1847–'50, and lower by 0.07 (6 per cent.) than in 1871–'75. The tendency of the price of meat to rise began to appear about 1865, but has not continued since 1880. The price of veal and of mutton show, on the whole, a similar movement. Pork, on the other hand, has not risen so much, which is to be ascribed to the competition of the pork imported from North America.

For tallow and lard the prices of 1885 are lower by 12.33 marks (15 per cent.) and

25.17 marks (27 per cent.), respectively, than in 1847-750.

Leather.—The price varied from 485.13 marks in 1866 to 260.74 marks in 1878; and the five-year period price varied from 410.34 in 1861-65 to 289.42 marks in 1876-80. The price in 1885 was higher by 66.88 marks (25 per cent.) than in 1847-50, and was lower by 12.18 marks (4 per cent.) than in 1871-75.

Bristles and ox-horns show a considerable rise in price in recent years. As compared with the period 1847-'50 the prices of these articles in 1885 show a rise of 394.53 marks (111 per cent.) and 44.78 marks (110 per cent.), respectively. Compared with the

period 1871-75, the rise in price is 33.49 marks (5 per cent.) and 10.14 (13 per cent.),

respectively.

Herrings.—The price varied from 37.48 marks per ton in 1879 to 18.60 marks in 1851; the five-year period price varied from 34.37 marks in 1876-80 to 24.13 marks in 1861-55. The price in 1885 was higher by 9.04 marks (45 per cent.) than in 1847-50, and it was lower by 1.46 marks (5 per cent.) than in 1871-75. The great fluctuations in price are the natural results of variations in the catch.

The price of currants shows a great rise in some years, as, for instance, in 1856 and

1857, in consequence of the failure of the crop in Greece.

French wine.—The price varied from 97.67 marks per hectoliter in 1880 to 27.83 marks in 1851. The five-year period price varied from 78.40 marks in 1881—85 to 27.60 marks in 1847—50. The price in 1885 was higher by 42.81 marks (155 per cent.) than in 1847—50, and was higher by 9.15 marks (15 per cent.) than in 1871—75. The cause of the steady rise in the price of Bordeaux wine (the grade chiefly entering into the trade of Hamburg) is to be found in the ravages of the phylloxera in the vine-yards of the Gironde.

Coffee.—The price varied from 186.08 marks in 1874 to 82.20 marks in 1851 and 1852; the five-year period price from 160.42 marks in 1871-75 to 88.80 marks in 1851-755. The price in 1885 was higher by 17.04 marks (23 per cent.) than in 1847-750, and lower by 69.22 marks (43 per cent.) than in 1871-75. The coffee crop in Brazil, Java, etc., of course affects the price of coffee, but the great rise in price between 1873 and 1877

is to be ascribed chiefly to speculation.

Cocoa.—The price varied from 197.42 marks in 1879 to 58.02 marks in 1851; the five-year period price from 151.50 marks in 1876–80 to 69.96 marks in 1851–55. The price in 1855 was higher by 95.28 marks (147 per cent.) than in 1847–50, and higher by 58.42 marks (57 per cent.) than in 1871–75. Speculation has much to do with the extraordinary fluctuations in the price of this article.

Tea.—The price of tea shows slight fluctuations in comparison with those of coffee

and cocoa. In the last decade, 1875-'85, the prices were lower than before.

Rice.—The price varied from 32.58 marks in 1855 to 17.37 marks in 1885; the five-year period price from 28.74 marks in 1851-'55 to 18.53 marks in 1881-'85. The price in 1885 was lower by 16.29 marks (48 per cent.) than in 1847-'50, and is lower by 4.21 marks (20 per cent.) than in 1871-'75. The Suez Canal, by shortening the sea voyage, has contributed to the cheapening of this article.

Indigo, cane (for chairs), and ivery are considerably higher in price in 1881-'85 than they were in 1847-'50, the changes in price being 48, 76, and 94 per cent. respectively. This rise in price had already taken place in 1871-'75. The price of cochineal, on the other hand, has fallen greatly, and was lower in 1881-'85 than in 1847-'60 by 68 per cent. The cause of this decline is to be found in the progress of chemistry, which

has brought out cheap substitutes for cochineal.

The prices of mineral products, with few exceptions, show a remarkable decline in recent years. The cause is to be found in the cheapening and extension of production, in the keen competition of the producers of different countries, and in the fact that demand fails to keep pace with the supply. We present the variations in these prices in tabular form.

Articles.	The yearly prices, in varied between	n marks,	The prices, in marks, for five-year periods, varied between-			
Coalper 1,000 kilosPig-ironper 100 kilosBar-irondoSteeldodoLeaddodoCopperdodoQuicksilverdodo	5. 14 (1885) 14 14. 26 (1885) 34 34. 41 (1885) 77 25. 08 (1884) 63 110. 92 (1885) 240 354. 63 (1883) 1, 303 (1866)	7. 46 (1873) 1. 86 (1873) 1. 24 (1873) 1. 64 (1855) 1. 08 (1873) 1. 24 (1856) 1. 50 (1874) 1. 08 (1857)	12. 56 (1881- 5. 80 (1881- 15. 87 (1881- 86. 08 (1881- 28. 25 (1881- 130. 05 (1881- 384. 27 (1881- 1. 98 (1866-	'85)       10. 52 (1871-'75)         '85)       25. 86 (1871-'75)         '85)       62. 58 (1856-'60)         '85)       50. 28 (1871-'75)         '85)       214. 44 (1856-'60)         '85)       852. 06 (1871-'75)		
Articles	•	1885 comp	o in marks of ared with that .847-'50.	The price in marks of 1885 compared with that of 1871–'75.		
Coal Pig-iron Bar-iron Steel Lead Copper Quickeilver Sait	per 100 kilosdododododo	+ 2.80 + 5.54 + 19.41 + 10.59 + 61.04 +461.09	(22 per cent.) (81 per cent.) (28 per cent.) (86 per cent.) (29 per cent.) (86 per cent.) (61 per cent.)	+ 8. 34 (60 per cent.) + 5. 38 (51 per cent.) + 11. 60 (45 per cent.) + 18. 89 (85 per cent.) + 24. 89 (49 per cent.) + 68. 68 (38 per cent.) + 476. 87 (56 per cent.) + 1. 42 (45 per cent.)		

The considerable fall in the price of quicksilver, since the discovery of the California mines, is of especial importance in the silver question, since it contributes to the cheaper separation of gold from silver. The remarkable rise in price between

1872 and 1876 was brought about by speculation.

Cotton.—The price varied from 436.02 marks in 1864 to 90.60 in 1854; the five-year period price varied from 281.88 marks in 1861-'65 to 99.66 marks in 1851-'55. The price in 1885 was lower by 8.94 marks (8 per cent.) than in 1847-'50, and lower by 47.16 marks (32 per cent.) than in 1871-'75. The enormous rise in price between 1862-'66 was of course caused by the civil war in America. A still greater rise in price would have taken place but for the extension of cotton-raising in East India.

Wool.—The price varied from 432.30 marks in 1860 to 200.72 in 1864; the five-year period price from 417.24 marks in 1856–60, to 239.55 marks in 1881–85. The price in 1885 was lower by 157.76 (44 per cent.) than in 1847–50, and was lower by 131.76 marks (39 per cent.) than in 1871–75. The chief cause of the lower price of wool is to be found in the extraordinary development of wool-growing in Cape Colony, Aus-

tralia, the Argentine Republic, and elsewhere.

Silk.—Fluctuations in the price of silk are caused chiefly by the varying yield of silk in China and Upper Italy. The poor product in 1867-'69, and again in 1872-'73, caused a considerable rise in price, which makes the steady fall since 1878 more striking. The price in 1885 was lower by 9.61 marks per kilogram (25 per cent.) than in 1847-'50, and was lower by 14.33 marks (33 per cent.) than in 1871-'75.

The price per kilogram of Milan organizine (22-26) was, in francs, gold, cash, as follows during the last twenty years. We take the figures from a communication

received from Elberfeld.

Years.	Highest.	Lowest.	Average.	Years.	Highest.	Lowest.	Average.
1866	114 118 140 127- 121 100 113 107 92 75	98 112 114 101 88 83 99 92 70 66	106 115 127 114 1041 911 106 991 81 701	1876	81 <b>65</b>	62 71 69 65 66 68 61 55 55	91½ 86½ 77 77 73¼ 63½ 58 57½ 51

Of 114 articles mentioned in these tables, 51 have risen in price by more than 5 per cent. in 1885 as compared with 1847-'50, 55 have fallen in price by more than 5 per cent., while in the remaining 8 no essential change had taken place. In comparison with the average prices of the period 1871-'75, the year 1885 shows a rise of more than 5 per cent. in case of but 10 articles. In case of 90 articles a fall of more than 5 per cent. has taken place, while 14 articles show no essential change.

Lack of space prevents further remarks on these tables. These notes have been given chiefly to show that wholesale prices are subject to frequent and great changes; that many different factors influence their course, and that it is exceedingly difficult to get any certain conclusion as to the real level of general wholesale prices at one

period compared to another period.

If, nevertheless, we were to state in summary form the results of our investigations on the changes in the purchasing power of gold, we should say that the cost of living, compared with the time immediately preceding the great influx of new gold had become higher, for the great majority of the population of Germany, by 60 or 80 per cent. in the last thirty years. Since the period 1871-75 a further rise can not, on the whole, be observed. The general level of wholesale prices in the last five years is higher by about 18 per cent. than in the period before 1851, but is lower by about 12 per cent. than in the period 1871-75. But these statements can be taken and should be taken only as approximate estimates, to be accepted with every qualification.

# APPENDIX.



# EXTRACTS FROM EXISTING MINT LAWS AND MINT TREATIES. WITH SPECIAL REFERENCE TO THE QUESTION OF STANDARDS.

United Kingdom, British Possessions, and British India.—The act of April 4, 1870 (An act to consolidate and amend the law relating to the coinage and Her Majesty's mint, 33 Victoria, chapter 10), makes the following provisions:

As fixed by the act 56 George III, chapter 68 (of June 22, 1816), 20 pounds Troy of gold,  $\frac{1}{12}$  fine, are to be coined into 9342 sovereigns, while 1 pound Troy of silver,  $\frac{3}{4}$  fine, is to be coined into 66 shillings of

silver.

The sovereign has therefore by law a weight of 123.27448 grains Troy (7.98806 grams metric weight), and contains 7.3224 grams fine gold. The shilling has by law a weight of 87.27273 grains Troy (5.65518 grams) and contains 5.2301 grams of fine silver. The other gold and silver coins are coined in the same proportions.

The tolerance for gold coins is 0.002, and for silver coins is 0.004. The legal-tender weight is, for the sovereign, 122.5 grains (7.93787 grams), for the half sovereign, 61.125 grains (3.96083 grams). No legal-tender

weight is fixed for silver coins.

Sovereigns and half sovereigns are legal tender to any amount. Coins under legal-tender weight can be refused. All such coins handed into the Bank of England are cut in two by the bank, and accepted by it only for their weight of standard gold. The loss on light coins is borne by the public.

Any person may carry gold to the mint and have it coined at the rate of £3 17s. 10½d. per ounce Troy, standard fine. No seigniorage is charged. If gold of greater or less flueness than the standard is brought to the mint, it is there converted into standard gold, at the expense of the

owner.

For a long time there has been in the United Kingdom but one mint—that at London.

The Bank of England is obliged to accept all gold brought to it and to pay for it at once at the rate of £3 17s. 9d. per standard ounce. The difference of  $1\frac{1}{2}d$ . compensates the bank for its trouble and for the loss of interest between the day when gold is brought to the mint and the day when it is returned as coin. The consequence of this provision is that the Bank of England almost exclusively carries gold to the mint.

Silver is coined only on Government account, and is legal tender only up to £2. In the United Kingdom, therefore, the pure gold standard

exists.

From time to time considerable amounts of worn silver coins are withdrawn on the Government account and are recoined. There is no specific legal regulation of such action.

At the old, so-called normal, ratio of silver to gold of 1:15½ (the price of silver being 60½d. per standard ounce) the intrinsic value of the silver was less than their nominal value by 7.82 per cent.

At a ratio of 1:21 (the price of silver being 447d. per standard ounce) the intrinsic value is less than the nominal value by 31.96 per cent.

The notes of the Bank of England are legal tender for all payments,

except payments by the bank itself.

The Bank of England and the other banks of issue in England are not allowed to issue notes in denominations of less than £5. This restriction does not apply to banks of issue in Scotland and Ireland, which are permitted to issue £1 notes.

In all the colonies of Australasia the coinage system of the mother country and the pure gold standard obtain. Branches of the London mint have been established at Sydney and at Melbourne, which, however, as yet coin only gold. Their coins are legal tender in the United Kingdom and in all British colonies.

In the Dominion of Canada the gold standard exists. The sovereign is a legal tender for \$4.863, and an eagle of the United States is legal tender for \$10. Silver coin is legal tender only up to \$10.

Cape Colony and Natal followed the British coinage system.

In Hong-Kong and the Straits Settlements Mexican piasters are the chief medium of exchange and the silver standard exists. The silver standard exists in Mauritius and Ceylon, the Indian rupee being legal tender.

In British India the silver rupee has been the standard of value since 1835. The rupee weighs 180 grains Troy; it contains 165 grains fine silver and 15 grains alloy. The smaller coins (one-half, one-fouth, one-eighth rupees) are coined in the same proportion. The tolerance for the rupees and half rupees is one-half per cent. in weight and one-half per cent. in fineness.

Rupees and half-rupees are legal tender up to any amount so long as they have not lost more than 2 per cent. in weight. One-fourth and one-eighth rupees are legal tender only up to one-rupee.

Gold mohurs, of the same weight and fineness as the rupees, are coined on demand in pieces of 15 rupees; but neither these mohurs nor other

gold coins are legal tender.

There are mints at Calcutta and at Bombay to which every one may bring gold and silver of standard fineness for coinage. There is a seign-orage of 1 per cent. for gold and 2 per cent. for silver, and a charge of one-half per cent. and 1 per cent., respectively, for remelting into standard coin. A proclamation by the Indian Government of 1868, announcing that sovereigns would be accepted at public offices for 10 rupees 4 annas, has no result, since gold coins fetch a higher price at the bazars.

The United States.—In the United States the double standard existed by law until 1873; though at times inconvertible paper money drove both gold and silver from circulation. The ratio at which gold and silver were coined varied at different periods, so that the actual standard of value alternated. The original monetary unit was the Spanish piaster, supposed to contain 375.64 grains of fine silver. The act of April 2, 1792, which established the mint, provided as follows:

Gold dollars were to contain 24.75 grains fine Troy, and silver dollars to contain 371.25 grains fine Troy. The ratio was, therefore, 1:15. Smaller silver pieces were to be coined in the same proportion as the silver dol-

lars.

The weight of fine gold in the gold coins was reduced by an act of July 31, 1834, to 23.20 grains Troy, and soon afterwards was changed

by an act of July 18, 1837, to 23.22 grains Troy, the standard being changed at the same time from  $\frac{1}{12}$  to  $\frac{9}{10}$ . The weight of fine silver in the silver dollar up to the present has remained unchanged. The ratio has therefore been, since 1837, 1:16 (accurately, 1:15.988).

After the year 1851 the price of silver was at times so high that it became profitable to melt silver coins. It was necessary to retain within the country a sufficient amount of small coin, and an act of February 24, 1853, reduced the amount of silver in small coins, and provided that they should be coined only on Government account. At the same

time they were made legal tender only up to the sum of \$5.

In 1870 the Government concluded to pass a revised coinage law with a pure gold standard; silver being demonetized as a legal-tender money. The bill prepared for this purpose was subjected both by Congress and by experts to repeated and careful examination. During three sessions no final decision was reached on it. It did not become law until April 12, 1873, and no opposition was expressed either in the House of Representatives or in the Senate to the abolition of the double standard which was clearly expressed in it. The silver dallars previously coined (of which, however, but few were in existence) maintained their quality as legal tender; but new dollars were not to be coined either on Government or on private account.

The formal complete demonetization of silver as legal-tender money took place still further by section 3586 of the Revised Statutes of 1874, which provided that the silver coins of the United States were to be

legal tender only up to the sum of \$5.

The new coinage law went into effect on the 1st of December, 1873; but the pure gold standard which it provided for was at first of no practical importance, and attracted no attention. No noteworthy depreciation of silver had as yet taken place, customs duties and interest on the national debt were paid almost exclusively in gold coin, and in general trade paper money was used unless contracts stipulated for coin. But when, in 1875, the resumption of specie payments became probable, and the production of silver in Nevada had greatly increased, a vigorous agitation began for the re-establishment of the double standard, and for a large coinage of silver. A joint resolution of the Senate and the House of Representatives established a commission for investigating the double standard, and a majority of the commission recommended its re-establishment.

Representative Bland accordingly proposed in Congress the establishment of the double standard at the old ratio of 1: 15.988, with free coinage of silver. This proposition could not be carried, as the bill, in order to be passed over the veto of the President, needed a majority of two thirds. Such a majority could be obtained only by substituting for free coinage a proviso by which the Secretary of the Treasury is authorized and required to buy silver from time to time, not less than two and not more than four million dollars' worth per month, and to coin it at once into silver dollars.

This act of February 28, 1878, generally known as the "Bland bill" or "Allison bill," put an end to the gold standard which had been established five years before, and made the silver dollars, coined at the old rate, legal tender for all public and private debts, unless other stipulation was expressly made by contract.

The act also authorized the President to invite the Governments of those countries which constitute the Latin Union, and of such other countries as he saw fit, to a conference at which a common ratio between gold and silver was to be reached by international agreement,

and a permanent ratio between the two metals assured. This was the occasion, as is well known, of the International Monetary Conference at Paris, which lasted from the 10th to the 29th of August, 1878. As is also well known, the conference did not accept the proposals of the American delegates. It achieved nothing positive, nor did the later monetary conferences, also held at Paris in 1881, from April 8 to May 19, and from June 30 to July 8. On January 1, 1879, specie payments were resumed in the United States. The premium on gold had disappeared several months before. No use was made of the privilege of redeeming legal-tender notes in coin at the Treasury.

The act of February 28, 1878, has remained in force up to the present time (September, 1886), although attempts have not been wanting to bring about its repeal or amendment. On the one hand, Presidents, Secretaries of the Treasury, and members of Congress, have repeatedly recommended that the coinage of silver dollars be stopped; on the other hand, members of Congress have proposed as repeatedly free coinage

of silver dollars.

A remarkable preference for well-secured paper money has developed in the United States. The Comptroller of the Currency has called attention to this in one of his earlier reports: "The population throughout the country want paper money, and the banks find it difficult to satisfy this demand. They find a similar difficulty in inducing their customers to accept coin. \* \* \* It was supposed that after seventeen years of paper money the public, which had hardly seen a gold piece during that time, would welcome eagerly the returning yellow metal; but a deep-rooted habit proved stronger than the liking for gold, and the redeemable paper is preferred."

This explains the great variety of paper money which exists in the United States. Besides legal-tender notes and bank-notes, various kinds

of certificates circulate.

Gold certificates were first introduced by an act of March 3, 1863, which authorized the Treasury to issue certificates for deposits of gold coin or bars. These certificates, intended primarily for clearing-house use, were also to be received in all public payments. When, on December 1, 1878, the issue of gold certificates ceased, the banks of New York found it necessary to establish a depository of their own, which issues since October 14, 1879, certificates for gold deposits. An act of July 12, 1882, again authorizes the issue of gold certificates by the Treasury on deposits of gold coin in sums of not less than \$20.

Silver certificates were introduced by the Bland bill of February 28, 1878. It authorizes every holder of legal-tender silver dollars to carry them to the Treasury in sums of not less than \$10, and to receive in exchange silver certificates in the denominations of United States notes. The silver dollars remain in the Treasury for the redemption of the certificates, which are receivable in payment of customs and of all public

dues.

Since 1873 the Treasury issues certificates of deposits for legal-tender notes. The Treasury also issues certificates of deposits of subsidiary coin, which are accepted for their face value in public payments. This is a natural corollary to the provision that subsidiary coins are redeemable at the Treasury in legal-tender coins.

When, in 1861, greenbacks were made a legal tender in the United States, the banks associated in the New York clearing-house agreed that clearings should be made exclusively in gold. This rule has been maintained since the resumption of specie payments on January 1, 1879, and has been applied more particularly in regard to silver. An act of

Congress of July 12, 1882, in regard to the renewal of the charters of the national banks, aimed to put an end to the exclusion of silver dollars and silver certificates by providing that no national bank should be a member of a clearing-house at which gold and silver certificates were not accepted in payment of balances. The clearing-houses have, therefore, been compelled formally to abolish their rule, but in practice gold continues to be used in all clearing-house transactions.

In the same way the Secretaries of the Treasury of the United States have hitherto been careful in practice to pay the interest and principal of the national debt in gold, although their obligation to do so is not positive. Moreover, the Treasury holds a reserve of \$100,000,000 of gold for the redemption of the greenbacks, whose maximum since 1879 has

been \$346,681,016.

Germany.—Before the coinage reform brought about by the acts of December 4, 1871, and July 9, 1873, there existed in Germany (apart from Alsace and Lorraine) seven different coinage systems. The gold standard existed in Bremen; elsewhere the silver standard prevailed. The chief provisions of the acts mentioned and of some later supple-

mentary acts are as follows:

The imperial coins take the place of the local coins previously in use; the monetary unit is the mark. The mark is one-tenth of a gold coin called a crown, of which there are struck from a pound (the German pfund) of fine gold 139½ pieces. In addition to the crown of 10 marks, imperial gold coins of 20 marks (double crowns) and imperial gold crowns of 5 marks (half crowns) are struck. The coinage of the last-mentioned pieces has, however, ceased for several years. The imperial gold coins are to contain 900 parts gold and 100 parts copper; therefore 125.55

10-mark pieces, or 62.775 20-mark pieces, weigh 1 pound.

The variation of the pieces from the standard shall not exceed in weight 2½ parts in a thousand, nor in fineness 2 parts in a thousand. Imperial gold coins whose weight is not under the normal weight by more than 5 parts in a thousand, and which have not been diminished in weight by violent or illegal damage, are legal tender in all payments. Imperial gold coins which are not up to this weight, and have been accepted in payment by the Empire, states, provinces, or communes, or by banks or other credit institutions, are not to be reissued. If gold coins have lost by abrasion in consequence of long circulation so much in weight that they are no longer legal tender, they are to be withdrawn and recoined on account of the Empire. Such coins are also to be accepted by the Empire and by the federal states at their nominal value.

Every one is entitled to have gold coined into 20-mark pieces at a

charge of 3 marks per pound of fine gold.

The Imperial Bank must pay gold in bars, in redemption of its notes,

at the fixed rate 1,392 marks for the pound of gold.

Silver pieces are coined as follows: 5-mark pieces, 2-mark pieces, 1-mark pieces, 50-pfennig pieces, and 20-pfennig pieces. The pound of fine silver is coined into 100 marks. The coins contain 900 parts of silver and 100 parts copper, so that 90 marks in silver coins weigh 1 pound. Silver pieces must not vary in fineness more than 3 parts in a thousand from the standard, and must not vary in weight (except in the case of the 20-pfennig pieces) more than 10 parts in a thousand.

The total amount of imperial silver coins shall not exceed, until further

provision is made, 10 marks per head of population.

No individual need accept more than 20 marks of imperial silver coins in payments. They are accepted in any amount by the Empire and by the federal states. The Bundesrat is to designate certain offices which

are to redeem imperial gold and silver coins in sums of not less than 200 marks.

Imperial silver coins which have lost in weight, or whose marks have. been rubbed off by long circulation, are accepted in payments to the Empire and the federal states, but are to be withdrawn on account of the Empire.

All older German coins are no longer legal tender, and have been withdrawn, with the sole exception of the thaler pieces. Whatever pieces of this kind still exist are legal tender to any amount, like the imperial gold coins, each piece being equal to 3 marks. An act of April 20, 1874, provides that Vereins-thaler, coined in Austria before 1867, shall also be full legal tender. Since May, 1879, the sales of silver by the German Government have ceased, and with them the withdrawal of of thaler pieces has ceased. The Chancellor of the Empire is authorized

to renew the sales at any time.

An act of January 6, 1867, has authorized the Bundesrat to put the thaler pieces, and the Austrain thalers already referred to, on the same footing as imperial silver coins, that is to say, to make them legal tender only up to 20 marks, the thaler being still reckoned at 3 marks. The Bundesrat is to proclaim such a change in the Reichsgesetzblatt, and it is to take effect at the earliest a month after publication. Since the suspension of silver sales and of the withdrawal of silver thalers, in May, 1879, there is no likelihood that the Bundesrat will make use of the authority so conferred on it. The act of January 6, 1876, is, however, of importance, since it makes certain the power of the Bundesrat to demonetize the thaler pieces—a power which had been doubtful under the language of Article VIII of the coinage act of 9th July, 1873.

Denmark, Sweden, and Norway.—The coinage system of the three Scandinavian countries is based on the treaty concluded between them on December 18, 1872, and on the acts which they have passed in accord-

ance with this treaty.

The pure gold standard replaces the former pure silver standard. On the old system, the Swedish thaler contained 6.3763 grams of fine silver, the Danish half-thaler contained 6.3205 grams fine silver, the Norway quarter-thaler contained 6.342 grams of fine silver. The new gold unit (the crown divided into 100 öre) contains 0.403226 grams of fine gold. Consequently the ratios for conversion into the new coinage have been, respectively, 1:15.57, 1:15.43, and 1:15.44.

The gold coins are 0.900 fine; the alloy is copper.

Gold pieces of 20 crowns and of 10 crowns are struck, there being 124 of the former and 248 of the latter to the kilogram of gold fine. The 20 crown piece weighs, therefore, 8.96057 grams and the 10-crown piece 4.48029 grams; their weight in fine gold is therefore 8.06452 and 4.03226 grams, respectively. In Sweden pieces of 5 crowns, of a corresponding weight, have also been coined.

The tolerance for the gold coins is, in fineness, 1½ parts in a thousand; and in weight, 1½ parts in a thousand, for 20 crown pieces; 2 parts in a thousand for 10-crown pieces. For large quantities, weighing 10 kilo-

grams, the remedy for both coins is 5 grams.

The gold coins cease to be legal tender in private transactions when they have lost more than 1½ per cent. of their weight. But so long as they have not lost 2 per cent. of their weight they are received in public payments. In Denmark and in Norway the state is obliged to exchange all gold coins which have its impress, and which have lost more than one-half per cent. by abrasion, for full-weight gold coins. The Bank of Norway weighs every coin it receives, and turns over to the state every piece which has lost one-half per cent. of the legal weight.

Every person who brings to the mint gold of the prescribed quality is entitled to have it coined into 20-crown pieces, on paying a charge of one-fourth per cent., and into 10-crown pieces on paying a charge of one-third per cent. In Norway, the Bank of Norway is obliged to buy gold bars at the fixed rate of 2473.80 crowns per kilogram fine, and gold is consequently coined only for the bank.

Silver is subsidiary coin, struck only on Government account. Pieces

are coined as follows:

Coins.	Weight.	Fineness in 1,000.	Weight of fine silver.
2 crowns	Grams. 15 7.5 5 4 2.42 1.45	800 800 600 600 600 331	Grams. 12 6 8 2.4 1.453 0.480

The ratio between gold and silver is accordingly 1:14.88.

Pieces of 1 and 2 crowns are legal tender only up to 20 crowns, other

silver coins only up to 5 crowns.

The remedy for all silver coins is in fineness 3 parts in a thousand. In weight the remedy is 3 parts and 5 parts in a thousand, for double crowns and crowns respectively. For the smaller silver coins, in quantities of a kilogram, it is 6.10 and 15 parts in a thousand.

In all three countries specified public offices will redeem subsidiary

coins in gold, in sums of 10 crowns or multiples thereof.

The coins of each country, struck in accordance with the treaty, are legal tender in all three countries. The treaty has set no limit to the

coinage of subsidiary coins.

The tables printed in Part VI of our Materials show how very slight is the circulation of actual gold in the Scandinavian countries, and in how high a degree the circulating medium, so far as it does not consist of silver, consists of bank notes. For more than sixty years the population of the three Scandinavian countries has been accustomed to bank notes as a convenient and secure circulating medium, and notes are preferred to gold coins as they were formerly preferred to the heavy silver

coins. Exceedingly few coins appear in ordinary transactions.

The Netherlands.—The double standard was abolished in the Netherlands by the coinage law of November 26, 1847, and in its place a single silver standard was adopted. The unit was the florin (gulden) containing 10 grams of silver, of a fineness of 0.945. By acts of June 6, 1875, and May 10, 1876, the single gold standard has been introduced, by which the unit has made and still remains one-tenth part of a gold coin of 10 florins, containing 6.720 grams of gold of a fineness 0.900—that is, containing 6.048 grams of fine gold. The earlier Wilhelm d'or had contained 6.0561 grams of fine gold. The remedy is for the 10-florin pieces, in fineness 1½ parts in a thousand, in weight 2 parts in a thousand. Up to the present no gold coins except 10 florin pieces have been struck. Private persons are entitled to have 10-florin pieces struck at the mint, in so far as the mint is not busy on state account. The mint charge is determined by the administration from time to time, but may not be set higher than 5 florins per kilogram of mint gold. As a rule, the Bank of the Netherlands, which is ready to buy gold at prices fixed at its discretion, causes gold to be coined.

The coinage of larger silver pieces is discontinued. Subsidiary silver coins in denominations of 25 cents or less are coined on Government account.

The silver coins of  $2\frac{1}{2}$ , 1, and  $\frac{1}{2}$  florins remain for the present full legal tender, side by side with new gold coins. These old silver pieces, as stated above, contained 9.45 grams of fine silver to the florin. The change to a gold standard, therefore, took place on an assumed ratio of 1:15.625. The silver coins still exist in large quantity, and are the most important medium of exchange in domestic transactions, although their intrinsic value is 30 per cent. less than their nominal value. In foreign trade gold exclusively is used, as the Bank of the Netherlands is prepared to pay on demand gold for this purpose.

In the colonies of the Netherlands the coinage system of the mother country obtains in the main, there being a difference only in regard to

the small subsidiary coins.

In France, Italy, Belgium, and Switzerland a uniform coinage prevails. These countries (with Greece, in which, however, an inconvertible paper money is for the present in use) form the so-called Latin Union. This union was originally formed by a treaty concluded at Paris, December 23, 1865, and has been continued by later treaties to the close of 1885. By a treaty of November 6, 1885, and by a supplementary treaty of December 12, 1885, the continuance of the Latin Union was agreed on, after long and heated discussion, till January, 1891.

The coinage system, which follows that of the French coinage act of March 28, 1803, is as follows:

	Fine	metal.	Weight		
Coins, francs.		Fineness.	Tolerance.	True weight.	Tolerance.
Gold		900	2 2	6. 45161 8. 22580 1. 61290 25 10 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3ilver	1 =	835		3	<b>   </b>

The 20-franc piece, therefore, contains 5.8065 grams of fine gold, the silver 5-franc piece 22.5 grams of fine silver; the franc-piece 4.175 grams of fine silver. The coinage ratio is, therefore, for the 5-franc pieces 1:15.5, for the smaller silver coin 1:14.3806.

Each contracting state agrees to receive the coins of the other states in payments to itself, with the proviso, however, that no coins are to be received that have lost one-half per cent. or more of their legal weight.

The further coinage of silver 5-franc pieces has been stopped for the present, and can only be resumed by the unanimous agreement of all the contracting countries. But the power to resume their coinage without such unanimous agreement is reserved, on the fulfillment of certain specific conditions.

The contracting Governments agree to accept each others' 5-franc

pieces in public payments.

Each contracting country agrees to accept from the other contracting countries those 5-franc pieces whose weight is less by 1 per cent. than the minimum permitted to be coined. In France the 5-franc pieces

are accepted on Government account by all branches of the Bank of France.

Subsidiary silver coins are to be melted and recoined by the Government issuing them, as soon as their weight has lost 5 per cent. by abrasion or the coinage marks have been worn off. Subsidiary coins are legal tender up to 50 francs for individuals of the country issuing them. Each state will accept from its subjects without limit subsidiary coins of its own issue. Each of the contracting states will receive subsidiary coins, struck by one or more of the other contracting states, in sums of 100 francs at any one payment. Each of the contracting countries agrees to redeem in gold coins, or in silver 5-franc pieces, subsidiary coins issued by it, and presented for redemption by its own subjects or by another contracting country; but no sum under 100 francs is to be redeemed.

. Subsidiary coins can be issued by the contracting countries only to the amount of 6 francs per head of population. This sum can be exceeded under certain specific conditions, but the excessive issues have been comparatively small.

The conventions of November 6, 1885, and of December 12, 1885, contain a number of specific provisions as to the manner in which the redemption of silver 5-franc pieces is to take place, in case the union

should be dissolved.

# THE PRICES OF COMMODITIES IN 1886 COMPARED WITH THE PRICES OF PREVIOUS YEARS.

[The translator adds to Dr. Soetbeer's Materials a translation of two articles published by him in the Hamburg Börsen-Halle, Nos. 181 and 182, in which he continues his investigations of general prices for the year 1886.]

I.

In the course of 1886 the opinion has been frequently expressed, and has been maintained in commercial papers, that the fall in prices which had continued steadily till 1886, had at last come to an end, and that there were signs of a turn in the tide, toward rising prices. But in other quarters it has been said—and here, particular commodities were cited, as they were in support of the first-mentioned view—that the fall in prices had continued in the year 1886, even though not in so great a degree as in previous years. Which view is correct? In any case, no considerable change in the general level of prices is likely to have taken place in 1886 as compared with former years, since such a difference of opinion exists. But even if the change that may have taken place is a slight one, the continued discussion of the silver question causes much interest to attach to a careful and impartial investigation of the actual range of prices in 1886.

of the actual range of prices in 1886. For the solution of this problem

For the solution of this problem we may turn first of all to those statistics of prices which are now admitted on all hands to be the most complete and trustworthy. These are the statistics of the Hamburg Bureau of Trade Statistics, which have been prepared carefully on a consistent method since 1847, and have latterly been presented in complete form in the second edition of the well-known "Materials towards the Elucidation of the Economic Conditions affecting the Precious Metals." A well-deserved confidence in the results of these publications from 1847 to 1855 has been generally expressed, and a similar confidence will be accorded to the corresponding results of the lately published "Tabular Statements of the Trade of Hamburg in 1886." It must always be remembered, of course, that these results like others, while deserving attention, are yet not a conclusive indication of the general level of prices. But, before presenting the average prices of 1886, as indicated by the Hamburg statistics, we wish to present a few remarks and statements based on the recently published statistics of the trade of the German Customs Union with foreign countries in the year 1886, published by the Imperial Statistical Bureau.

Ever since careful statistics of foreign trade were undertaken, the Imperial Statistical Bureau has endeavored to ascertain each year the prices of the individual commodities, and thereby to secure statistics of values. Estimates for this purpose are prepared by the collection and

comparison of statements of prices. These statements are derived from several sources—from the statistics of prices which the Hamburg Bureau of Trade Statistics obtains from the prices current of that place, and which give the average prices of almost every commodity dealt in; from the regular monthly memoranda of prices sent in by several chambers of commerce for important articles of trade; and from communications from a large number of commercial bodies in regard to the

average annual prices of commodities in their districts. It is impossible to obtain separate prices for all commodities for which the prices differ appreciably; still less is it possible to obtain separate prices for each quality and grade of the same commodity. The more important articles of foreign trade must be lumped together under certain heads, in which different grades and qualities are included; and it has been necessary sometimes to put essentially different commodities under the same head. Estimates of this kind are necessary for statistical purposes, yielding, as they do, an average price for a certain number of commodities. Moreover, it is necessary to present the general conditions of the trade of the whole territory, and especially to show what parts are played in imports and exports by the different classes and qualities of commodities. The average prices of each head are estimated from the prices—easily ascertainable from men of business—of the different articles grouped under that head. It is of course impossible to get actual average prices for all classes, especially for such as include commodities of varying quality. But some estimate of their value is necessary in order to obtain a statement of the total value of exports and imports. However, these estimated values contribute little to the total, as compared with the classes for which sufficiently exact prices can be ascertained. With few exceptions, prices are reckoned at so much per hundred kilograms net weight, and refer to the calendar year. We must first learn something of the fluctuations in price during the year of each article or class, and then an average yearly price can be secured. The prices of imported and of exported articles are estimated separately. The price of imported articles is taken to be the sum which is paid by the home country to the foreign country; the price of exported articles is taken to be the sum paid by the foreign country to the home country. Duties are not reckoned as part of the prices of imported articles, nor are drawbacks considered in reckoning the prices of exported articles.

The Bureau of Statistics each year summons experts to aid it in preparing prices. The experts are divided into six sections, based on a systematic classification of the commodities. For the year 1886 thirty-eight gentlemen, of whom the majority had taken part in previous

years, were employed in estimating the prices.

These average prices, in which there were at the outset many mistakes, have become more accurate and trustworthy from year to year. They have been compiled in essentials on the same method, and there-

fore comparisons can be readily made.

We now present a general comparison of the average prices for the years 1885 and 1886 of a certain number of important articles. We pay attention to but few of those for which no change in price is indicated between 1885 and 1886. We arrange the articles on the plan followed in the tables of the Materials.

A481-	Imported or	O-0-44-	Prices	in
Article.	exported.	Quantity.	1885.	1886.
			Morks.	Marks.
Wheat	Imported	100 kilograms	13, 50	14.60
Rya	do	do	11	9.70
Rarley	do	do	12.80	12.90
HopsLinseed oil in barrels	do	do	280	300
Lingeed oil in barrela	do	do	45	40
Sugar, raw	Exported	do	28	22.91
Spirits	do	do	81	29.50
Horses	Imported	Piece	860	950
('0W8	do	do	400	375
Pigs	go	do	96	95
Rnttar	go	100 kilograma	150	150
Butter	Exported	do mograda	71	66
Cattle hides	do	40	180	170
Salt herring	ďΛ	do	29	26.50
Raisins	do	do	45	40
Wine in casks	do	40		55
Coffee.			95	112
Cocos			152	160
Rice			19	
Tobacco leaves	···· 00 · · · · · · · ·	do	160	18.50
TODACCO 188V68	u0			150
Coal	T	do	. 90	.92
Pig iron	Imported	Q0	4.40	4.30
Iron tools	Exported	QO	100	90
Lead	00	go	21.50	25
Zine		do	28, 50	28.50
Tin	протеа	do	180	197.50
Copper	qo	op	95	85
Coal oil	go	do	14.50	13
Chili saltpeter	go	qo	20	18
Cotton	do	do	109	99
Cotton yarn, Nos. 17-45	do	do	180	173
Cotton yarn, Nos. 17-45	Exported	do	875	870
Cotton hose	do	do	850	850
Flax		do	70	78
Linen		do		475
Silk, raw	Imported	do	4, 400	4, 800
Wool	do	do	270	310
Woolen goods	Exported	do	550	600
Aniline, etc	do	do	750	680

The uncertainties and difficulties attending such an estimate of average prices are obvious. The degree of confidence felt in the accuracy of the stated balance of trade depends in Germany, as it does in France, on the trustworthiness of the statistics of prices. If the average prices for important articles are taken to be higher or lower by a few percents, the balance of trade may be made to appear favorable or unfavorable. Absolute accuracy is, of course, impossible, and it may be a question whether the British Trade Statistics do not use a better method. Their method consists in obtaining statements from business men themselves, of the value of the imported and exported commodities; from these statements the average prices of the different classes of goods are secured by calculation from the totals of the declared values. But it is certain that the estimates for the German trade have been made with great thoroughness and care. They are, therefore, well adapted for securing comparative statements of the general level of prices—statements which, it is true, apply primarily to Germany, but are not likely to vary much from those of the world's trade.

The Imperial Statistical Bureau has done much to render such comparisons easy. It has given for each year the total value of the exports and imports, not only for that year, but also the value at the prices of the previous year. On this method, regard is paid not only to the changes in individual articles, but also to the greatly varying importance of one commodity as compared with another.

7

Min total of all the commedition imported into Commonwin the man	Marks.
The total of all the commodities imported into Germany in the year 1886 was, on the prices of that year	<b>2,</b> 888, 398, 000 <sup>.</sup>
The value of the same commodities at the prices of the year 1885 would have been	
The difference between the two sums is	11, 243, 000
This indicates that the prices of 1886 were lower than the by 0.26 per cent.	hose of 1885
· · · · · · · · · · · · · · · · · · ·	Marks.
The total value of the exports in 1866 was, at the prices of that year	2, 985, 553, 000

This indicates a fall in prices of 2.42 per cent.

In general, considering both exports and imports, we might conclude that the level of prices in Germany in 1886 had been lower than in 1885 by 1.40 per cent.

It will be of interest to present the same comparison for earlier years, based on the same materials and prepared on the same methods. The publications of the Imperial Statistical Bureau enables us to make such

a comparison for the years since 1882.

The value of the total exports and imports of Germany, as derived from average prices estimated for each year, and the total value of those exports and imports as derived from the estimated prices of each preceding year, were as follows: \*

	18	82.	b e- less of 1881.	18	88.	b e - ces of 882.
	By the prices of 1882.	By the prices of 1881.	Difference tween pr 1882 and	By the prices of 1833.	By the prices of 1882.	Difference between prices 1883 and 1882
Imports	Marks. • 8, 164, 667, 000 8, 244, 721, 000	<b>Marks.</b> 8, 171, 149, 000 8, 221, 493, 000	Per ct. 20 +- 72	<b>Marks.</b> 8, <b>290</b> , 896, 000 8, 335, 000, 000	<b>Marks</b> . 8, 842, 122, 000 8, 410, 856, 000	Per ct1.58 -2.22
	18	8 <b>4</b> .	be- ces of 883.	18	b e- ces of 884.	
	By the prices of 1884.	By the prices of 1883.	Difference between prices 1884 and 1883	By the prices of 1885.	By the prices of 1884.	Difference b tween prices 1885 and 1884
Imports	<i>Marks</i> . 8, 284, 923, 000 8, 269, 401, 000	<i>Marks</i> . 8, <b>459</b> , 725, 000 <b>8, 486, 841, 0</b> 00	Per ct5. 05 -6. 22	Marks. 2, 944, 481, 000 2, 860, 257, 000	<i>Marks</i> . 8, 202, 438, 000 8, 093, 282, 000	Per ct8.05 -7.58

If we combine now the prices of exports and of imports, and take the mean between them, we get the following changes in prices:

1882 against 1881—a rise of	Per centl
1883 against 1882—a fall of	1 87
1884 against 1883—a fall of	5.63
1885 against 1884—a fall of	1.40

We see here a continued fall in general prices since 1883, which has taken place, however, at a slackened rate during last year as compared with the two previous years.

<sup>\*</sup> In 1885 and 1886 the exports and imports of gold and silver, in bullion and coin, are excluded from the figures.

II.

The preceding paragraphs considered changes in the general level of prices in the years from 1882 to 1886, as indicated by the statements of the Imperial Statistical Bureau in regard to the foreign trade of Germany. We now present the promised statement based on the average prices ascertained by the Hamburg Bureau of Statistics. They are prepared on the same method, and present the same sort of index numbers, as the tables printed in our Materials for the years from 1847 to 1885.

We refer to the Materials for a description of the sources and the method on which these figures rest. The space here at our disposal does not permit us to present separately the prices of each of the hundred articles or to make comparisons with each preceding year.

Articles.	1847-'50.		1871-'75.		1885.		1886.	
	Per 100 kilos.	Index.	Per 100 kilos.	Index. No.	Per 100 kilos.	Index. No.	Per 100 kilos.	Index No.
	Marks.		Marks.	<del></del>	Marks.		Marks.	
Vheat	19.44	100.00	23. 72	122.02	15.83	78.86	15.06	77.4
yo orn and potato spirit	12. 24 81. 57	100.00 100.00	17. 56 43. 40	148. 46 137. 79	12. 21 88. 23	99.75 105.26	11. 05 24. 07	90. 2 76. 2
lops	<b>89.7</b> 6	100.00	304, 68	839.44	218.11	242.99	191.49	213.
aw bugar	45, 66	100.00	54.78	119. 97	26. 59	58. 23	24.04	52.
.—Agricutural products, (20, including the 5 pre-								
ceding)		100.00		144. 90		110.75		101.
eef	0.72	100.00	1 15	150 70	1. 08	150.00	1 00	
lilk		100.00	1. 15 0. 12	159.72 171.48	1. 08 0. 12	150.00 171.43	1. 08 0. 11	150. 157.
utter	1. 20	100.00	2. 26	188.33	2, 12	176.67	2. 01	167.
eather		100.00	342.44	130.02	830. 26	125. 39	<b>836, 53</b>	127.
lerrings L.=Meat and fish products,	20. 25	100. 00	80.75	149, 85	29. 29	144. 64	<b>26.</b> 58	131.
(22, including the 5 pre-								
ceding)	•••••	100.00		154. 57	•••••	140.45	•••••	133.
aisins	42.72	100. 00	58. 14	136. 10	• 51.02	119.43	47. 25	110.
urrants	47. 94	100.00	44. 86	92. 53	37.43	78.10	43.00	89. '
alm oil rench wine	105, 90 27, 60	100.00 100.00	<b>9</b> 8, 26 61, 26	<b>92.</b> 79 221. <b>9</b> 3	<b>92.</b> 52 70. 41	87. 87 255. 11	86, 65 73, 25	81. <b>265</b> .
II.—Southern products,	21.00	100.00	01.20	221. 60	10.41	200, 11	13.20	200.
(7, including the 4 pre-					:			
ceding)		100.00		131. 50	• • • • • • • • •	123. 78	• • • • • • • • • • • • • • • • • • • •	122.
offee	74.16	100.00	160. 42	216. 82	91. 20	122.98	99. 49	134.
0003		100.00	101. 72	156.83	160. 14	246.90	137. 78	212
ea epper	288, 96 55, 08	100.00 100.00	282. 74 126. 52	97. 85 229. 70	206. 47 152. 50	71. 45 276. 87	203. 47 15 <b>9</b> . 23	70. 289.
ice	33. 66	100.00	21. 83	64. 11	17.87	51,60	16. 37	48.
ice								
(14, including the 5 preceding)		100. 00		130. 72		118 30		115.
<b>G</b> -7				100. 12	• • • • • • • • • •	-		110.
oal		100.00		131. 28	12.31	78. 26	11.88	75.
ig-iron	7. 44 53. 82	100. 00 100. 00	10. 52 53. 30	141. 40 99. 03	5. 1 <u>4</u> 84. 41	69. 09 63. 94	4. 77 81. 88	64. 58.
inc	81. 08	100.00	46. 84	149, 10	25. 14	80. 89	27. 28	87.
opper	171.96	100.00	179.60	101.44	110.92	64 50	103. 32	<b>60.</b>
It	4. 50	100.00	3. 16	70. 22	1. 74	88. 67	1, 62	36.
/// /m =   -     //   //   //   //   //   //			!					
ceding)		100.00	- • • • • • • • •	116. 90		74. 23		70.
otton	111.38	100. 00	149. 58	134. 32	102, 42	91. 97	96. 46	86.
Tool	360.24	100.00	834. 24	92.78	202.48	56. 21	187. 35	52.
lax	94.80	100.00	123. 12	129.87	148, 20	156. 83	132.34	139.
lk	3, 863. 64	100.00	4, 835. 91	112. 22	<b>2, 902. 7</b> 0	75. 13	2, 686. 13	<b>69</b> . :
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ing)		100.00		117, 17		<b>95.89</b>		<b>89</b> .
II.—Mis cellaneous, 11	]			; 			i	
articles (guano, India-							l	 
rubber, gutta-percha.		100 00		114 00		61 62		~~
rosin, tar, soda, etc.)		T00.00	• • • • • • • • • •	T14. Ag		あに35		78.

Glancing over the 29 articles and classes of articles, we find that the prices of 1886 were higher than those of the period 1847-50, when the new supplies of gold had not yet been discovered, for the following articles: Hops, meat, milk, butter, leather, herrings, raisins, wine, coffee, cocoa, paper, flax. On the other hand, prices are lower for wheat, rye, spirits, sugar, currants, palm-oil, tea, rice, salt, coal, iron, steel, copper,

zinc, cotton, wool, steel.

For agricultural products, as a whole (Group I), the prices of 1886 are about the same as those of 1847-50, there being a rise of only 1.31 per cent. For animal products (Group II) there is a rise of 33.53 per cent., for southern articles (Group III) a rise 22.44 per cent., and for tropical articles (Group IV) a rise of 15.45 per cent. On the other hand, the tables indicate that the prices of 1886 were lower than those of 1847-50, as follows: For mineral metals (Group V), by 29.48 per cent.; for textile materials (Group VI), by 10.24 per cent.; and for miscellaneous articles (Group VII), by 21.25 per cent.

Taking the whole 100 articles together, we find that the general level

of prices in 1886 was higher than in 1847-750 by 4.96 per cent.

The case is very different if we compare the average prices of 1886 with those of the period 1871-75. Here we find that of the 29 articles mentioned only 4 are higher in price: wine, cocoa, pepper, and flax. All others have fallen in price, and some have fallen very much.

This becomes plain if we compare the prices of different groups in 1871-75 and in 1886. Taking 100 to indicate the prices of 1871-75, we

find that a fall in prices had taken place, as follows:

	Per ce	ent.	ŧ
GROUP I.—Agricultural products			
GROUP II.—Animal products			
GROUP III.—Southern products			
GROUP V.—Minerals and metals		40	
GROUP VI.—Textile materials		24	
GROUP VII.—Miscellaneous products		32	

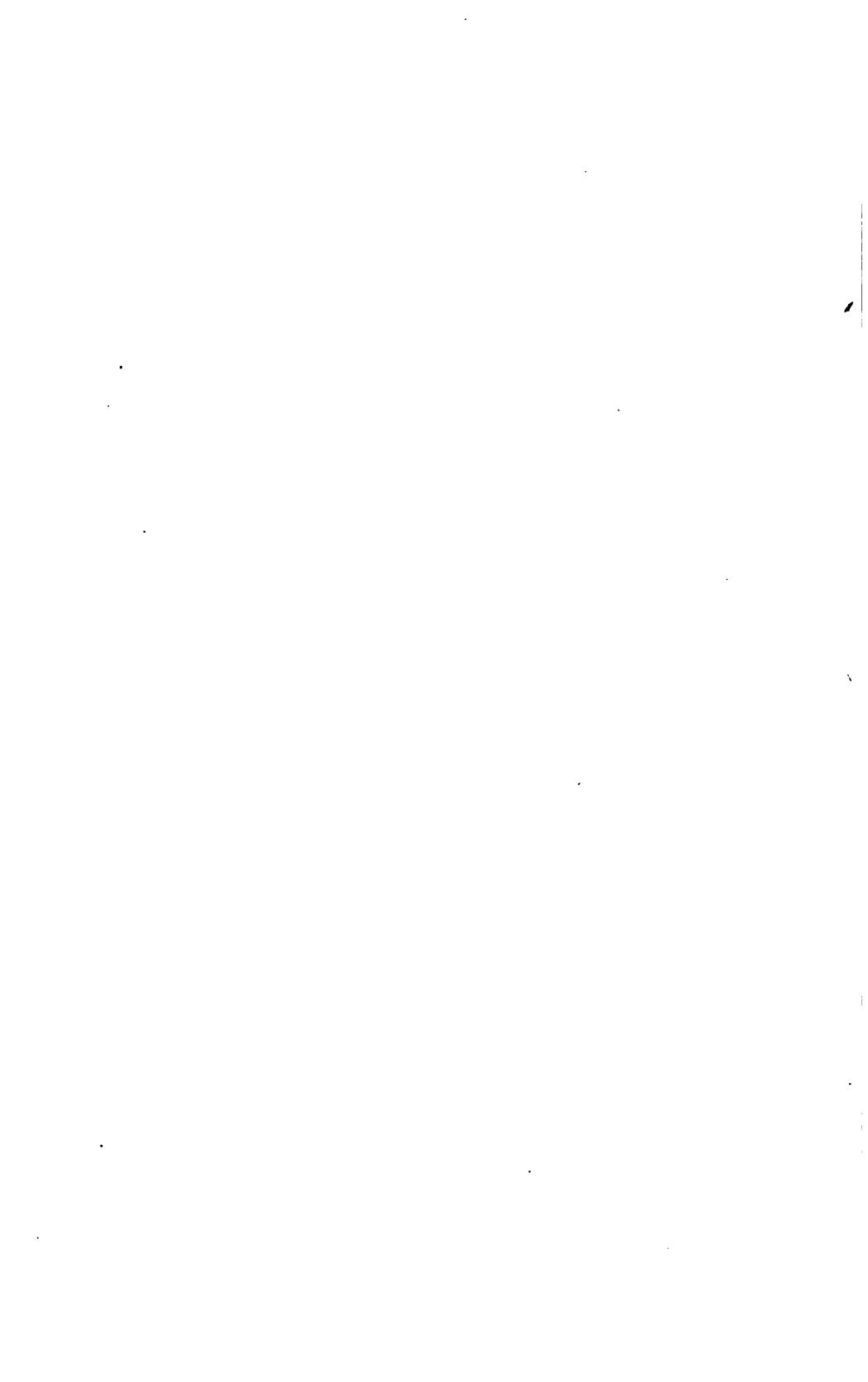
For all the 100 articles the comparative prices show a fall in 1886,

compared to 1871-75, of 22 per cent.

If we make a similar comparison with the year immediately preceding, we find that the figures of the Hamburg Bureau of Statistics indicate that the prices of 1886 as compared with those of 1885 show a further fall of 4 per cent.

No decided opinion can be expressed as to whether the figures for the year 1887, when completed, will show at last a rise in the general level

of prices.



### CHARTS

ON THE

## SILVER QUESTION,

PREPARED ON THE BASIS OF THE

### MATERIALS

TOWARD THE ELUCIDATION OF THE ECONOMIC CONDITIONS AFFECTING
THE PRECIOUS METALS, ETC.,

#### COLLECTED BY

### AD. SOETBEER.

- I. AVERAGE ANNUAL PRODUCTION OF THE PRECIOUS METALS, 1493-1885.
- II, III. PRODUCTION OF THE PRECIOUS METALS, 1493-1885, BY PERIODS.
- IV, V. PRODUCTION OF THE PRECIOUS METALS, 1493-1885, BY COUNTRIES.
  - VI. FLOW OF THE PRECIOUS METALS TO BRITISH INDIA, 1851-1885.
  - VII. RATIO OF SILVER TO GOLD, 1501-1885.
  - VIII. MOVEMENT OF PRICES, 1851-1885.



# REMARKS ON THE CHARTS ON THE SILVER QUESTION.

The charts on the silver question are meant to give the means of grasping readily the results reached in the second edition of our "Materials toward the elucidation of the economic conditions affecting the precious metals, etc."

The needful explanations are printed on the chart, and the data on which they are based may be found in the Materials. But on certain

points some special explanation may be of service.

As is explained in the preface and introduction to the second edition of the Materials, the value of silver is there reckoned, in terms of (gold) German marks, not on the old plan of assuming a permanent ratio of 15½ to 1, but according to the actual ratio at different periods since 1493. The same method of calculation is used for the charts. The statements of the value of the silver product, and of its proportion to the value of the gold product, therefore, vary from former statements based on the old method. The value of the annual average product of silver from 1881 to 1885 is ascertained by us to be 428,760,000 marks (for 2,862,000 kilograms) or 50.7 per cent. of the total value of the product of the precious metals. On the old method, the value would be 515,160,000 marks, or 55.3 per cent. of the total value.

We repeat, again, the qualification that the figures of the production

of the precious metals represent only approximate estimates.

We add to the statement of the ratio of gold to silver, the figures of the remarkable fluctuations in the price of silver which took place during the present year (1886) and caused much excitement in the silver trade. The London price of silver per ounce standard fine  $(\frac{37}{40})$  was:

Month.	Price.	Month.	Price.
January February March April May	4U 🛧 LO 4U l A	June July August September	d. 4413 to 45 423 to 444 423 to 423 425 to 45

The price of 42 pence (or 124 marks per kilogram of silver) corre-

sponds to a ratio of 22.45 kilograms silver to 1 kilogram gold.

In the chart showing the flow of precious metals to India, data are wanting for the value of rupees from 1859 to 1861. This is the result of the Indian Government's having paid in those years its debts in England from the proceeds of loans contracted there; in consequence hardly any council bills were sold. It should be stated, also, that in 1855 the net imports of silver to British India were only 296,000 rupees, and that in 1879 there was a net export of gold of 8,962,000 rupees. The years

for this chart are the Indian fiscal years, ending 31st March of the years

designated.

The chart showing the movement of prices (in regard to whose calculation we refer to the explanations in the Materials) is based on data from the Hamburg Bureau of Trade Statistics and from the London Economist. We have no figures from the Economist for January 1, of the years 1852-'57, and none for July 1 of the years 1852, 1854-'56, and 1858-'63. The remarkably high index numbers reached by that journal for 1864 are (the index numbers for 1845-'50 being 100 or 2,200), 172.14, or 3,787, for January 1, and 172.37, or 3,792, for July 1.

The following 114 articles were embraced in the calculations of the

Hamburg Bureau.

I.—Agricultural and related products (20): Wheat, wheat flour, rye, rye flour, oats, barley, malt, buckwheat, pease, beans, potatoes, hops, clover-seed, rape-seed, rape-seed-oil, linseed-oil, oil-cake, raw sugar, refined sugar, spirits from corn and potatoes.

II.—Animal and fish products (22): Beef, veal, mutton, pork, milk, butter, cheese, tallow, lard, hides, calf-skins, leather, horsehair, bristles, feathers, bones, ox-horns, mucilage, eggs, herrings, cured fish, fish-

oil.

III.—Southern products (7).

IV.—Tropical products, exclusive of cotton (19).

V.—Minerals and metals (14); Coal, pig.iron, bar-iron, steel, lead, zinc, tin, copper, quicksilver, sulphur (raw), Chili saltpeter (raw), salt, lime, cement.

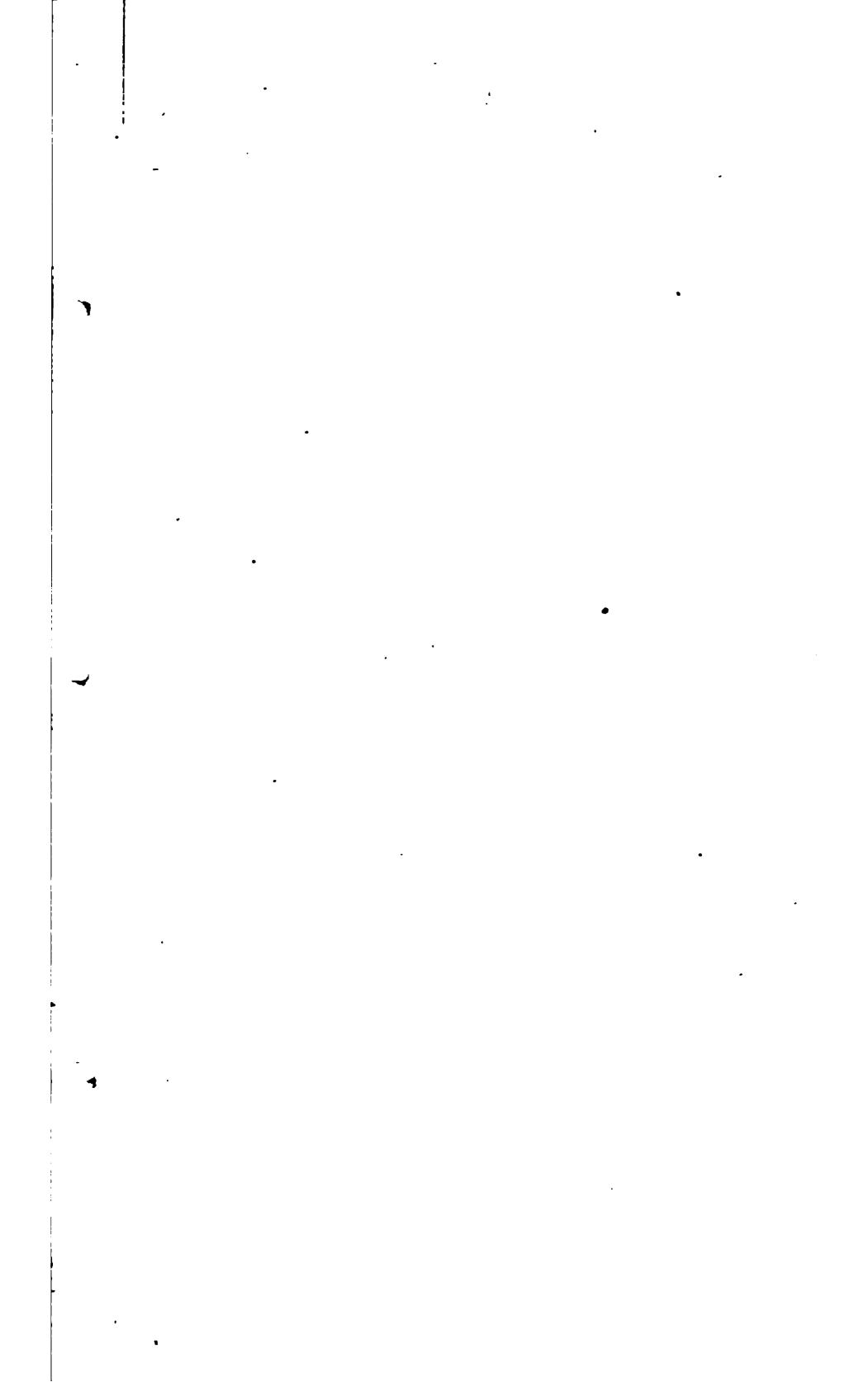
VI.—Textile materials (7). VII.—Miscellaneous (11).

VIII.—British manufactures, articles of export (14).

The London Economist considers the following 22 articles: Coffee, sugar, tea, tobacco, wheat, fresh meat, cotton, silk, flax and hemp, wool, indigo, oils, timber, tallow, leather, copper, iron, lead, zinc, Pernambuco

cotton, cotton yarn, cotton cloth.

Finally, we may mention that the chart refers only to wholesale prices. But the purchasing power of money is not shown by wholesale prices alone. Retail prices, rents, the wages of physical and mental labor; and, looking at the matter from another point view, the cost of living in the manner proper to one's station in life—all are to be considered. On this point also we must refer for further explanation to the Materials.



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Silver.

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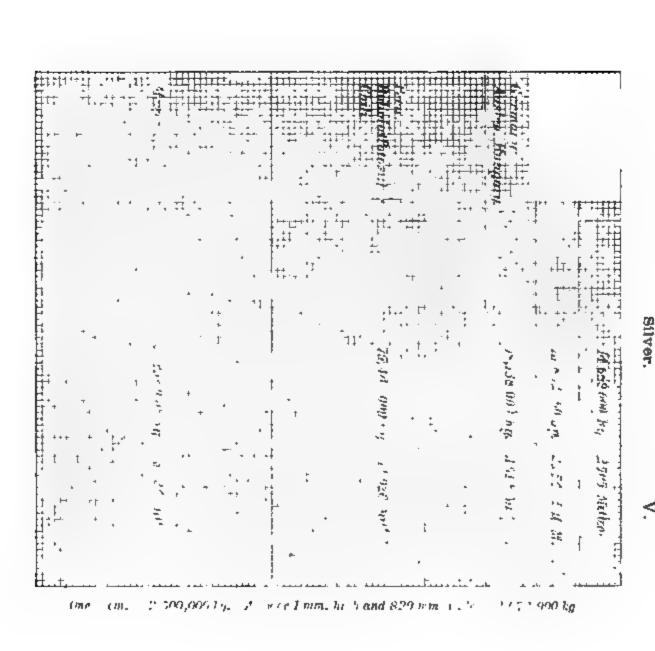
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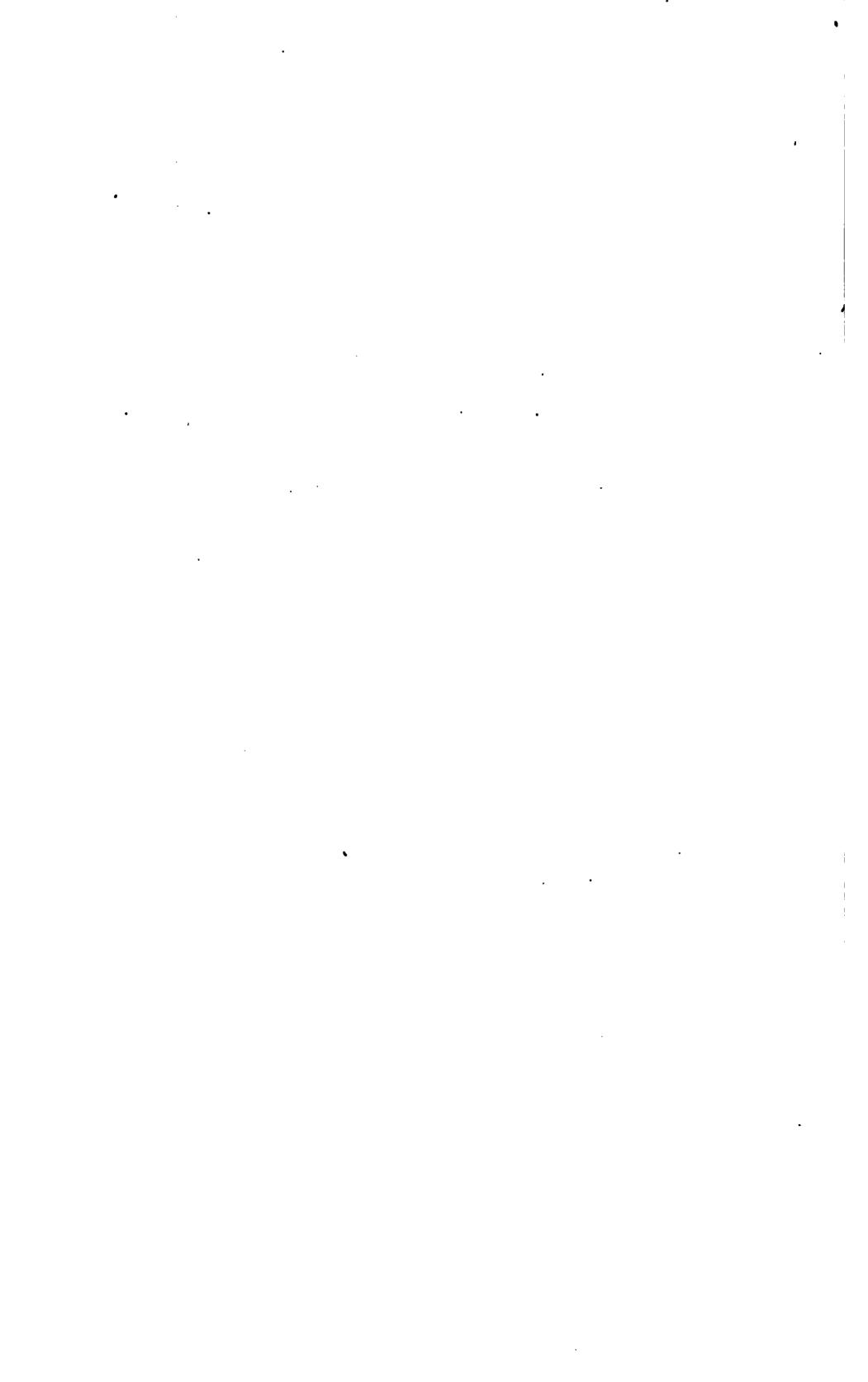
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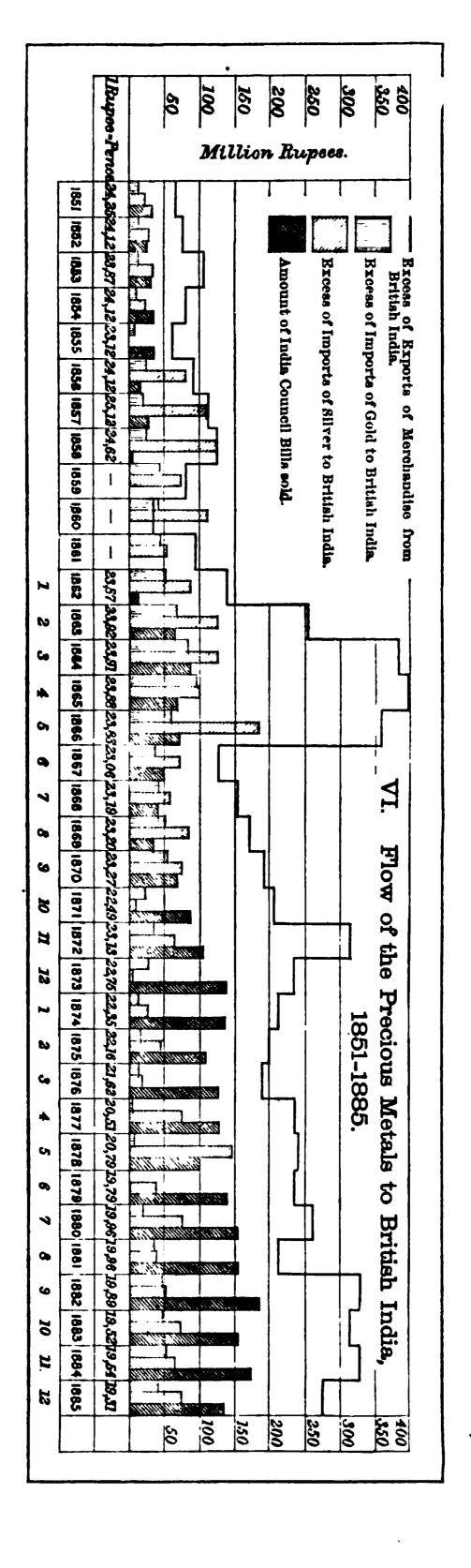
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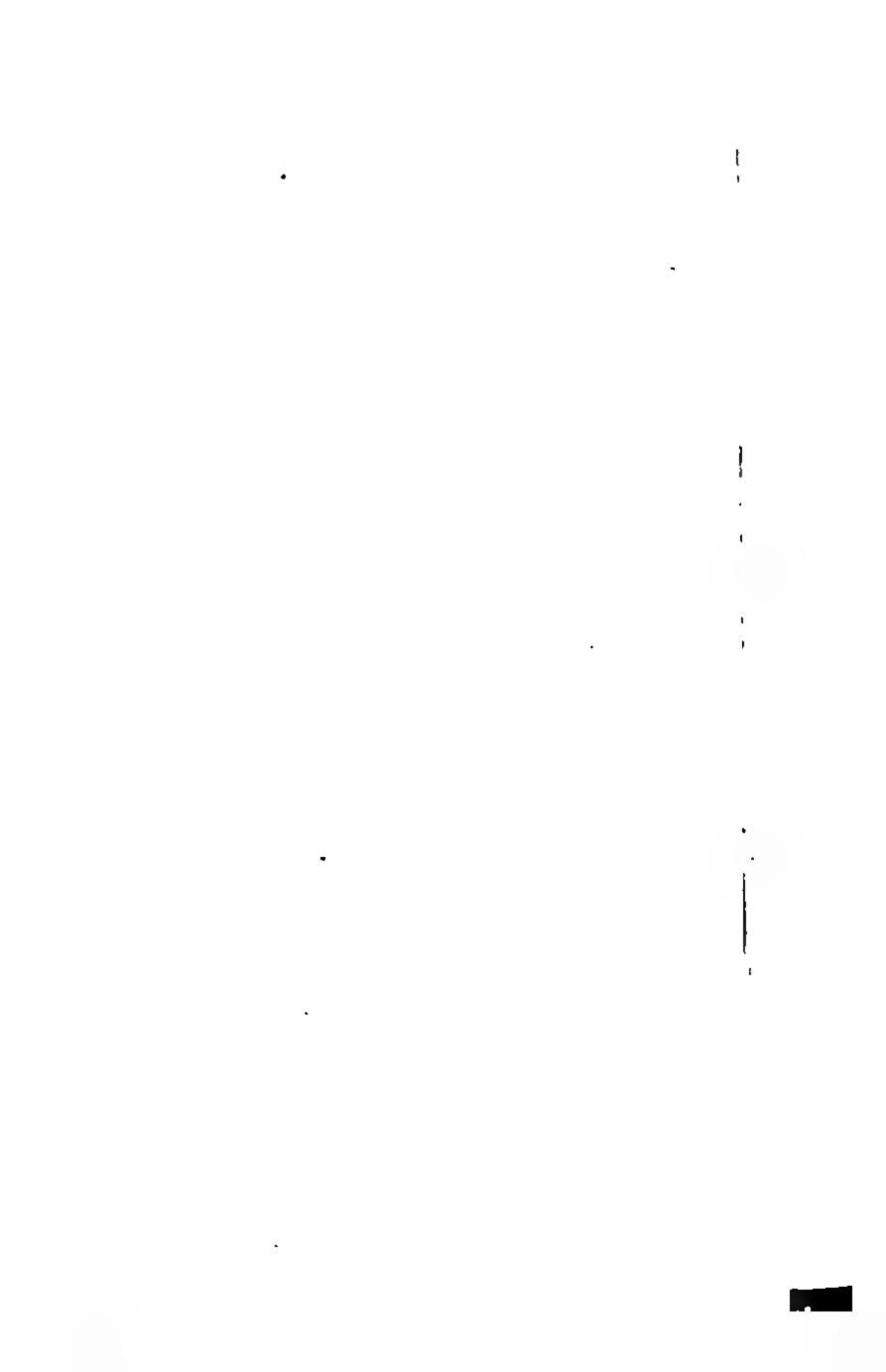




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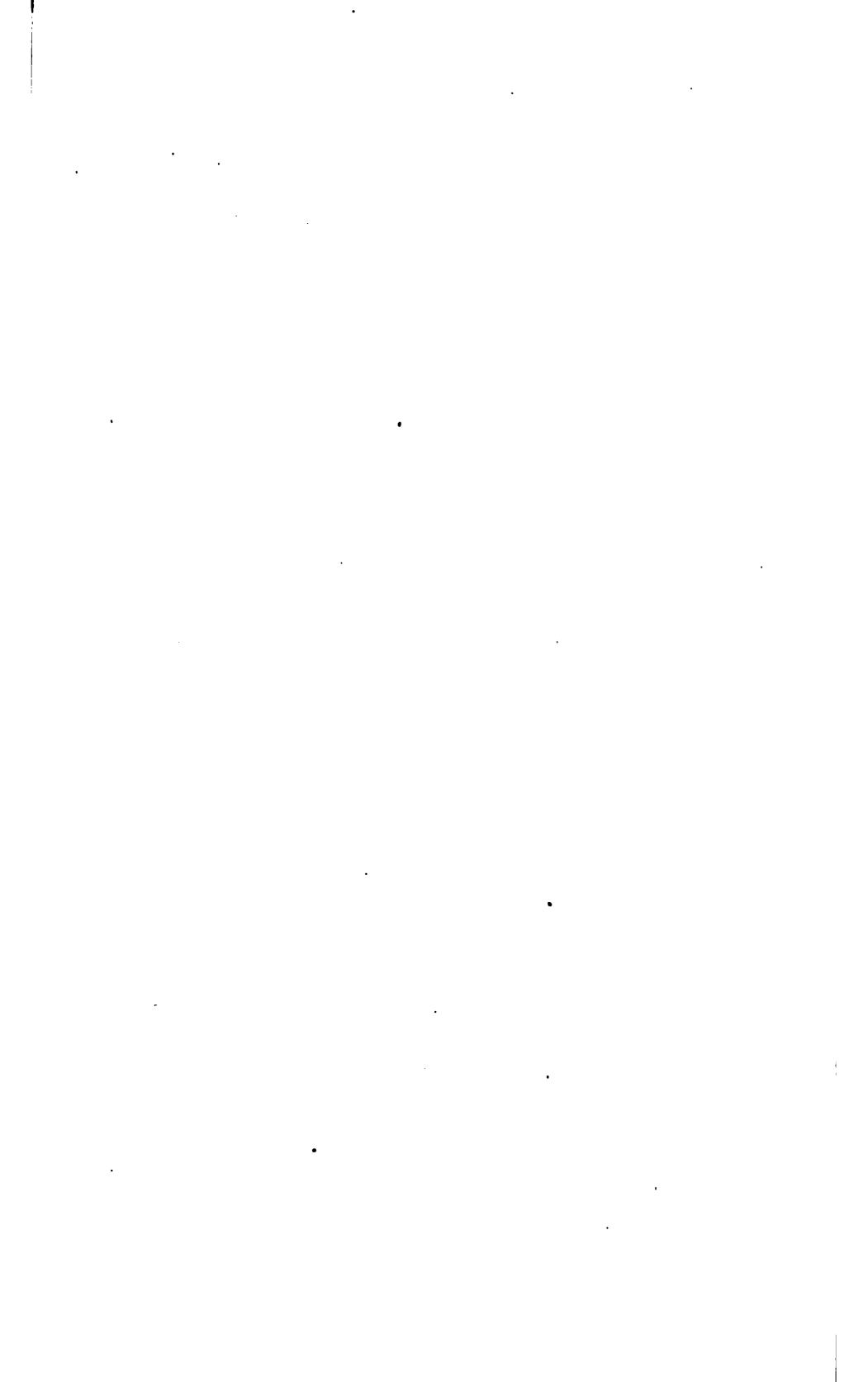
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### BIMETALLISM IN EUROPE.

## REPORTS

FROM THE

# CONSULS OF THE UNITED STATES.

No. 87.-DECEMBER, 1887.

WASHINGTON: COVERNMENT PRINTING OFFICE. 1887.

